THE TELEVISION OF THE STATE OF THE MINISTERIOR OF THE STATE OF STA ting Journal AND COMMERCIAL GAZETTE. RAILWAY

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 717 .--- Vol. XIX.]

LONDON, SATURDAY, MAY 19, 1849.

PRICE 6D.

Stannaries of Cornwall—In the Vice-Warden's Court.

DURSUANT to a DECREE of the VICE-WARDEN COURT, made in the cause of "Fox and others against Ellery," the creditors, respect of TREWOLLACK MINE, in the parish of ST. COLUMB MINOR, within t and Stannaries, are, on or before the Stoth day of May inst., to come in and PROVE the DEBTS before the Registrar of the said Court, at his office in Truro, or, in default there they will be excluded the benefit of the said Decree.

Dated Registrar's Office, Truro, May 16, 1849.

EXTENSIVE IRON-WORKS FOR SALE.
UPSET PRICE FURTHER REDUCED TO £45,000.

TO BE SOLD, BY PUBLIC ROUP, within the Royal Exchange Sale Rooms, GLASGOW, upon Wednesday, the 13th day of June next, at One o'clock afternoon (if not previously disposed of by private bargain).

THE BLAIR IRON - WORKS, belonging to the Ayrabire fron Company, situated in the parish of Dairy and county of Ayr, including FIVE BLAST-FURNACES, with TWO BLOWING-ENGINES, fit for these and additional furnaces, manager and workmen's houses and store, together with a large extent of MIXERAL FIELDS, held under most favourable leases, producing fronsions of the best qualities, Coal, Limestone, and Fire-clay, with Pits, Steam-Engines, and necessary appurtenances for carrying on the works on an extensive scale; also the adiosing MALLEABLE IRON-WORKS.
So far as creeted—all having a connection with the Glasgow and Ayr Rallway, and as more fully described in former advertisements.

There is a large stock of ironstone on the ground, which may be got at a valuation. For particulars apply to Mr. Biggart, at the works; W. D. Sarling, Esq., 13, Changeow.—Glasgow, May 10, 1849.

CALE OF MODUM RLHE COLOUR WORK SMALT.

SALE OF MODUM BLUE COLOUR WORK, SMALT WORKS, AND COBALT MINES, IN NORWAY.

BY ORDER OF THE COURT OF BANKRUPTCY,

BY ORDER OF THE COURT OF BANKRUPTCY,
The SALE of the PROPERTY belonging to the copartnership called MODUM BLUE
COLOUR WORKS, will be HELD at the GRANGE OF FOSSUM, in the parish of MODUM, Bailleship Buskerud, Bishopric Christianis, in the kingdom of NORWAY,
ON WEDNESDAY, THE 20ra OF JUNE, 1849,
AT ELEVEN O'CLOCK AM,
Consisting of the BLUE COLOUR WORKS, MINES, BUILDINGS, LANDS, FORESTS,
SAW and CORN MILLS, as well as all IMMOVABLES belonging to the WORKS, besides all RIGHTS and FRIVILLEGES belonging to it; also the ORES, HALF MARUFACTURED GOODS, and INVENTORY, being in STOCK at the WORKS, O' ELEEWHERE DEPOSITED and MORTGAGED in NORWAY.
The STOCK of MANUFACTURED BLUE COLOURS (amaits) will BE SOLD SEPARATELY.—The buyer acquires the claims of the works against the labourers and others.
The provisional notice of the Sale of the Modem Blue Colour Works aspeared in this

The provisional notice of the Sale of the Modum Blue Colour Works appeared in this paper on the 28th April, with a short description of the property, and on the 12th May with further particulars.

ith further particulars. The conditions of sale will be lodged in due time. Möllenhör, near Drammen, the 25th April, 1849. Inquiries may be addressed to Goodhall and Reeves, London. G. P. RASCH.

VALUABLE MINE MATERIALS FOR SALE

VALUABLE. MINE MATERIALS FOR SALE.

TO BE SOLD, BY PRIVATE CONTRACT, at NORTH DARLINGTON MINE, in the parish of LUBQVAN, in the county of Cornwall, ONE 50-inch CYLINDER ENGINE, 10-feet stroke in the cylinder, and 8 feet in the shaft, with brass-lined condensing work, and two boilers, about 12 tons each—also, ONE 20-in. STEAM WHIM, with a cage & boiler, complete—all in excellent condition. 5 Fethoms of 20-inch purmas 36 ditto 17 ditto 18 ditto 15 ditto 18 ditto 18 ditto 18 ditto 18 ditto 19 ditto 18 ditto 19 ditto 19 ditto 19 ditto 19 ditto 19 ditto 19 ditto 10 dit

DO BE SOLD (CHEAP), a 40-horse HIGH-PRESSURE BORIZONTAL STEAM-ENGINE, quite new; cylinder 24 inches diameter, stroke (set, mounted upon a strong metal box frame.—Apply to Mr. Matthew Smith, Sylvester orks, Sheffield, where the engine may be seen.

Works, Sheffield, where the engine may be seen.

CORNWALL—TYWARNHAILE MINES.

IMPORTANT AND VALUABLE COPPER MINES TO BE LET, BY PRIVATE CONTRACT, comprising the extensive SETTS formerly UNITED HILLS, WHEAL CHARLES, and SOUTH TOWAN, WHEAL CHARLES, and WHEAL FANCY, belonging to the Duchy of Cornwall, in the parish of SAINT AGNES.—These mines having been surrendered to the Duchy by the late lessees, during the extreme pressure of the latter part of the year 1847, have since been placed in good working order, and are yielding large and increasing returns. They are now to be leased, at a moderate rate of dues, for a term of 21 years. for putting the lessees of the Tywarnhaile Mines in postion of the adjoining setts of Wheal Sparrow, West Wheal Sparrow, Basset's United Solid Private Character, and Wheal Lydia, the property of the representatives of the late John Basset, 1819.

heal Clarence, and Whom Lydns, the property of seek, Esq. saist will be received at the Duchy of Cornwall Office, Somerset House; and any nformation may be obtained by application there, or to R. Taylor, Esq., Falmouth, of Cornwall, Somerset House, Feb. 20, 1849.

Duchy of Cornwall, Somerset House, Feb. 20, 1849.

COAL MINES IN FLINTSHIRE.—The TRYDDYN
LODGE ESTATE TO BE SOLD, BY PRIVATE TREATY, OR LET ON LEASE.
At consists of about 70 acres of good LAND, all in a ring ence, a good and commodious HoUSE, with a large GARDEN, COACH-HOUSE, STABLES, and all necessary and complete FARM BUILDINGS; togother with TWENTY-ONE STONE-BUILT COTTAGES for workmen, erected on the cestale.

A good tumplike-road—that from Chosts to Ruthin—passes through the property, and a branch of the Mold Rallway (which runs into the Chester and Holyhead Rallway, and is now about to open) will come within a quarter of a mile of the estate.

The Tryddyn Lodge Estate adjoins the Code Talon Irron-Works and Coal-works. The mines are wholly unworked; but closely adjoining workings at Coed Talon on the south side, and those on the Frank Farm Colliery on the north side, fully warrant the conclusion that all the seams of coal, of an aggregate thickness of 44 feet, within 150 yards of the surface. These coals (especially the Two-yard, Brassey, Main Coal, and those below) are over; superior quality, and in high seteems for house or smiths' mae, smelting, it is also most astisiactorily concluded that several beds of tronstone, of very excelleng. It is also most astisiactorily concluded that several beds of tronstone, of very excelleng. It is also most astisiactorily concluded that several beds of tronstone, of very excelleng the three of 40 inches.

Apply to Messrs. Harper and Parry Jones, solicitors, Whitchurch, Salop. rs. Harper and Parry Jones, solicitors, Whitchurch, Salop.

TENDERS FOR WELSH COAL AND NORWAY TIMBER.

ENDERS FOR WELSH UCALL AND NORWAL I LIMBERS.—TENDERS may be FORWARDED to ME, on or before the 1st proximo, for SUPPLYING TWO THOUSAND TONS, more or less, as may be required, of

we have a substituted of the substitute of the contraction of the less quality for Steam-Engines, to be DELIVEED at WEST CARADON, GO-NAMENA, and WHEAL MARY CONSOLS MINES, between Midsummer, 1849, and Midsummer, 1850, in-about equal quantities monthly, and so that the mines shall be kept constantly supplied; in default of which, and also of the quality being the best, the cost above the contract price of obtaining a supply elsewhere to be charged to the contractors. The mode of payment to be by acceptances, at three months, from the times (once in two months) of auditing the accounts.

TENDERS may also be FORWARDED to ME, on or before the 1st proximo, for SUPPLYING the following Mines—viz.: WEST CARADON, GONAMENA, CRADDOCK MOOR, and WHEAL MARY CONSOLS, for 12 months, from Midsummer next, with N O R W A Y T I M B E R, half Dram and half Longound, of good quality and average lengths, to be delivered at the respective mines, in such quantities as may be required, and when required, and to be charged at the measurement on which the duty has been paid.

Should the agents not approve of the quality of any timber sent in, the contractors to remove the same; and, at the optiqu of the respective adventurers, either replace it by an article of approved quality, or sabmit to a reduction from their bills of the amount of difference between the contract price and that at which the adventurers may obtain a supply from some other party; also the amount of the like difference to be deducted from the contractors to tending in supplies when and as required.

Payment for timber by acceptances at three months, as for coal above. Any mine may be tendered for separately, and either for coal or timber. Linkeard, 1st of 5th month (May), 1849.

RON, HARDWARE, AND METAL TRADES' PENSION
SOCIETY.—SIXTH ELECTION.—A GENERAL MEETING of the members of
the above society will be HELD at the London Tavern, Bishopsgate-street, on Monday,
the 28th day of May, 1849, at half-past Twelve e'clock precisely, for the purpose of electing Four Men and Two Women, as additional pensioners, and for other business.
The poll will commence at One o'clock, and no polling paper can be received after
THOMAS HAWKINS, Hon. Sec.
67, Upper Thames-street, London, May 1, 1849.

JAMES BOYDELL, LAND, MINE, AND MACHINERY VALUER, AND AGENT,
No. 34, THREADNEEDLE-STREET, LONDON,

A PATENT RIGHT for BUILDING VESSELS with IRON, on a principle which com

ses increased strength with greater economy of manufacture.

Also, ONE for the CONSTRUCTION of IRON ROOFS, on a like principle. A speci of this may be seen as a roof covering one of the retort houses of the Birminghan d Staffordshire Gas Company, by permission of Mr. Clift, the engineer, at the works. Also, ONE for IRON JOISTS and RAFTERS, and for a plan of joining large plates an ests of tron.

of iron.

o, ONE for the AMALGAMATION of STEEL and IRON—in the progress of facture of the latter, by which a great saving may be effected in the cost of ma

manuacture of the latter, by which a great saving may be effected in the cost of making edged tools.

The LEASE of a very celebrated FOUNDRY and ENGINEERING ESTABLISHMENT, on the River Dee, compolete, with fixtures, machinery and tools, in working order, and ready for any parties to embark at once on building first-class iron steam-vessels, and marioe and locomotive engines.

The above will be found worthy the attention of any parties destring to invest money in a profitable business, as they will be disposed of upon terms which will ensure an unusual return to the purchasers of them.

Also, SOME COAL and IRONSTONE MINES, FREESTONE QUARRY, and a large FREEHOLD ESTATE.

Also, STEAM-ENGINES and MACHINERY, of all descriptions, and which he is enabled to offer at very moderate prices.

bled to offer at very moderate prices.

Also, SHARES in a well-known valuable SLATE QUARRY, in CARNARVONSHIRE.
Also, SHARES in, or the whole of, a GAS-WORK, which supplies exclusively a popuous town in Shropshire, and which can be greatly extended.

Particulars of the above may be had, upon application, at 54, Threadneedle-street.

TO ENGINEERS, BUILDERS, AND ARCHITECTS.

JAMES BOYDELL, 54, THEADNEEDLE-STREET, having been a very large manufacturer of machinery and irregular shaped Iron, and having accomplished the rolling of some descriptions of the latter, thought by many to have been impracticable, will be happy to ASSIST any ENGINEERS, SHIPBUILDERS, and ARCHITECTS, in the planning of the details of what IRONWORK they may have eccasion for, or bringing to perfection any invention in machinery, as well as procuring such materials for the purpose as they may require.

VALLEY OF LOETSCHEN SILVER-LEAD MINING AND SMELTING COMPANY.

VALLEY OF LOETSCHEN SILVER-LEAD MINING AND SMELTING COMPANY.

OFFICES, 37, SOUPHAMPTON-STREET, STRAND.

In answer to an advertisement contained in the Mining Journal of the 12th inst., signed, "Boyet and/John Hooker," proprietors, Mr. GUSTAVUS WILLIAM BLANCH begs to inform the mining interest at large that the DEEDS of GRANT of the above MINES are in his NAME and POSSESSION, and can be seen by all the parties interested in the undertaking; and that the above-named gentlemen, who call themselves the proprietors, are only shareholders, and not proprietor, as they croneously call themselves. These deeds grant "the preparatory works, buildings, sites for ores, and the contracts with the communes for the wood necessary for the mines, amelting, and workmen, the produce of the ores extracted, also the tools and materials." These deeds, dated 28th and 29th August, 1848, excented and registered at Paris, prescribt the number and price of the shares, as massed in the prespectus, and concludes than-" Pierre Baglioni, Concessionaire of the above-named nime-approaches and money, "a Minimum of the proprietor of the above-named nime-approaches and money," a Minimum of the profits."

The continued correspondence confirming these deeds, up to the present day, may be seen, with the deeds, at the company's offices, as also a letter from Mr. Hooker, dated 10th May, 1848, consenting to the formation of a public company in shares, reserving to himself the disposal of his own interest, to be represented in the shape of shares—with which disposal of his own interest, to be represented in the shape of shares—with which disposal of his own interest, to be represented in the shape of shares—with which disposal of his own interest, to be represented in the shape of shares—with which disposal of his own interest, to be represented in the shape of shares—with which disposal of his own interest, to be represented in the shape of shares—with which disposal of his own interest, to be represented in the shape of shares—with which disposal of hi

ONDON, LIVERPOOL, AND DUBLIN COAL CONSUMERS' COMPANY.
OFFICES, 12, PALL-MALL EAST, LONDON.

In 25,000 shares and 5000 debentures, of £2 each

For the SUPPLY of COALS from their own MINES to shareholders in London at 14s. per ton: in Liverpool at 7s.; and in Dublin at 10s. For every share the holder will be entitled to one ton of coals per annum, at the above prices, and to his proportion of the general profits of the company, which, it is presumed, cannot be less than 20 per cent. Propectuses and all particulars may be had at the offices; or from Mr. C. H. Purnell, 3, Basement, Brunswick-buildings, Brunswick-street, Liverpool; Mr. Maguire, General Mining Company for Ireland, Dublin; and to Mr. J. L. Farley, 92; Lower Gardiner-street, Dublin.

JOHN JAMES HOOPER, Secretary.

GROWA SLATE COMPANY,
TREVALGA, CORNWALL.
TREVALGA, CORNWALL.
TREVALGA, CORNWALL.
Are offered to the public.
NOW IN WORK ON THE "COST-BOOK" PRINCIPLE.

NOW IN WORK ON THE "COST-BOOK" PRINCIPLE.

The QUARRY is stimated on the CLIFFS, within one mile of the port of Boscastel—vessels load at the quarry during three-fourths of the year.

The SLATE forms a remarkable exception to the general constitution of this mineral; and whilst its applicability to the several purposes of roofing, flooring, and the usual adaptations of the grey, blue, and other slates, a new series or utilities has been developed to the directors (by a gentleman who has, in consequence, been appointed superintending engineer to the company), which will extend its application in a variety of preparation to an extensive and completely novel character of uses.

A PATENT is in course of completion, for the purpose of securing to the shareholders in this undertaking the exclusive benefits to be derived from one of the most attractive discoveries of the present age.

in this undertaking the exclusive benefits to be derived from one of the most attractive discoveries of the present age.

Prospectuses, and all other information, may be obtained at the offices of the company, off, Threadneedle-street, where specimens of the slate may be seen; or to the solicitors, John Chapple, Esq., 70 A, Aldermanbury.

Prospectuses can also be had at the office of the Mining Journal, 36, Fleet-street.

London, May 16, 1849.

DUISBURG IRON-WORKS AND MINES,

Managed in England according to the principles of the "Cost-book System," and in

Prussia as a Societé in Commandité, under laws limiting the liability of the shareholders

their personal subscription. Company's Offices, 28, Moorgate-street, City.

INDURATED AND IMPERVIOUS STONE, CHALK, &c. and roreign Patents) the great demand for HUTCHISONISED MATERIALS—hard as granife, impervious to moisture, vermin, &c.; the cheapest and most durable for all buildings, hydraulic, paving, monumental and decorative work.—The profips are large. East Temple Chambers, London, or Tunbridge Wells, Kent, stating name, address, and capital at command.

N.B.—Houses cured of damp. The produce of soft stone quarries, chalk, phaster of Paris, wood, pasteboard, and all absorbent materials indurated to resist frost, vermin, &c.

LICENCES GRANTED.

TEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to CEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-KONG.

THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th of every month; and from Suezo no rabout the 10th of the month.

BOMBAY.—Passengers for Bombay can proceed by this company's steamers of the 29th of the month, to Malta, thence to Alexandris by her Majesty's steamers, and from Suez by the Honourable East India Company's steamers.

of the month, to Mains, thence to Augustons by her suggesty a scenaric, and not suggesty the Honourable East India Company's steamers.

MEDITERRANEAN.—MALTA—On the 20th and 29th of every month. Cometanticople—On the 29th of the month. Alexandria—On the 20th of the month.

SPAIN AND PORTUGAL. - Vigo, Oporte, Lisbon, Cadiz, and Gibraltar, on the 7th 17th, and 37th of the month.

For plans of the vessels, rates of passage-messey, and to secure passages and ship cargo apply at the company's offices, No. 123, Leadenhall-street, London; and 87, High-street Southamoton.

WANTED, by a Gentleman who has an AGENCY for the ALE of SCOTCH PIG-IRON, and is also desirons of ADDING one for the ALE of COPPER and SPELTER, in the counties of YORK, NOTTINGHAM, LINCOLK, and as he does business with all the most respectable ironfounders, fachinemakers, and can have introduction to the most extensive Locomotive Builders, a feels confident that he would be able to do a good and and business. Respectable reference will be given, and letters addressed to Box 168, Post-office, Hull ill meet with prompt attention.

WANTED,—A DOUBLE POWER BLAST-ENGINE,
SECOND-HAND, complete, from 25 to 30-horse power.—Address, stating price
and description, to Hiram Williams, 61, Moorgate-street, London.

to go ABROAD, as SUPERINTENDENT of COAL and IRON MINES.—The Advertiser possesse a complete practical knowledge of mining, the erection of meahing and-making, surveying, &c., having at present, and for several years, had the management of extensive mines. Every satisfaction will be given as to character and abilities. Address, stating particulars, "E. P. Q.," at the office of the Mining Journal, No. 26 Fleet-street, London. TO PUBLIC COMPANIES, &c.—WANTED, a SITUATION

COAL WAGGONS.—WANTED TO PURCHASE, by a Coal Master, a QUANTITY OF COAL WAGGONS, to run on the London and North-Western Railway, in connection with a colliery in the immediate neighbourhood. Written applications, stating height and width of carriage, thickness of axle, whether wrought or cast-iron wheels and thres, and lowest price, to be made to "A. B. C.," care of the Editor of the Mining Journal, at the office, 26, Fleet-street, London.

N.B.—Narrow-built waggons, not carrying about four tons each, would be preferred.

TO CONTRACTORS, ENGINEERS, MILLWRIGHTS, BUILDERS, AND OTHERS—By Messrs. FULLER and HORSEY, on Tresday, May 22, at Twelve, opposite the George Inn and Roak's Field, Addlestone, near Chertsey, Surrey, the valuable IRON MACHINERY of a WINDMILL, comprising perpendicular and cross shafting, break wheel 8 feet diameter, eog wheels in segments, spur, bevel, and piniou wheels, four 9-feet iron posts, wind cross for sails, two windmill sails 34 feet long, 95 patent shutters for sails, plummer blocks and apparatus; a vertical saw mill by Messrs. Wilson and Co, Leicester, with rack frame, eight saws, fly-wheels, strap and rigger wheels, brass spur and pinion wheels, shafting, &c.; 80 baljast waggons, 40 wheelbarrows, two chaff-cutting machines, two pile engines, 24 semi-centres, scaffold boards, cart, harness, and numerous other effects.

To be viewed on Monday previous to the sale, when catalogues may be had on the premises; and of Messrs. Fuller and Horsey, Billiter street. City.

TO IRONFOUNDERS AND ENGINEERS.—TO BE LET, OR SOLD, BY PRIVATE CONTRACT, the PHERIX FOUNDRY and FACTORY, at TIVIDALE, near DUDLEY, suitable for carrying on an extensive trade in the ladiway or General Engineering Business. The whole is fitted up with every convenience

or immediate occupation.
For particulars apply to Mr. G. Hickman, Wolverhampton-street, Dudley FOUNDRY TO LET, IN ROSS-SHIRE.—The TAIN IRON FOUNDRY, with STEAM-ENGINE, will now BE LET on the 35th inst., or as soon as a suitable offerer appears, and the STOCK will be made over to the tenant by VALUATION. It is seldom that such an opening occurs without any local competition—presenting a choice selection of customers over the counties of Ross and Sutherland. Apply to A. James, factor.—Tain, May 5, 1849.

RANITE QUARRY TO BE DISPOSED OF, in the South of CORNWALL, within three miles of the shipping port—lease for ever; lues most reasonable; quality first-rate, and quantity unlimited.—For inspecting samples, and further particulars, apply to Mr. Bartiett, 58, Lombard-street, London.

MINING OFFICES IN CODNWAY I Masses TOHN T.

TEAGUE & CO. beg to announce that they intend OPENING OFFICES, at
4. KIRG-STREET, TRURO, on Wednesday, the 23d inst, where they purpose CARRY-ING ON BUSINESS as MINE SHARE BROKERS; and in presenting themselves to the notice of the public, assure such as may favour them with support, that it is their determination both to withhold from speculating in mines themselves, and to transact business on commission only, to the rigid fulfilment of which they hereby pledge themselves.

Messrs. J. T. T. & Co. will be happy to afford every information as to the purchase or disposal of shares, and to forward their terms on application.

Truro, May 17, 1849.

MINING PROPERTY.—Mr. JAMES HERRON, MINE MAGENT SACREMENTS-LANE, LOMBARD-STREET, has received instruc-tions to DISPOSE of SHARES in FIRST CLASS MINES, paying regular dividends, and yielding to the purchaser from 17\frac{1}{2}\text{ to 25 per cent. upon his outlay. He is also in a post-tion to transact business in the following—viz.; imperial Brazilian, Copiapo, St. John fel Rey, Bolanos, Altens, Royal Santiago, Australian, H-imbush, East Tamar, Troleighs, Devon Great Consols, East Wheal Rose, West Caradon, South Wh. Frances, Condurrow, East Pool, Lewis, and Bedford Mines.

MINING OFFICES, THREE KING'S COURT, LOMBARD STREET, LONDON.—Messrs. R. TREDINNICK & CO. beg to draw the attention of capitalists to the DEPRESSED MARKET VALUE of SHARES in ENGLISH and FOREIGN MINES, many of which pay dividends of from 20 to 30 per cent. per annum, whilst those on the eve of so doing are selling at corresponding low prices.—Messrs. T. & Co. continue to DEAL in every description of MINING, RAILWAY, BANKING, INSURANCE, CANAL, and OTHER SHARES.—Statistical information afforded gratuitously, upon personal application.—MONEY ADVANCED upon the above securities.

MINING OFFICES, No. 8, GEORGE-YARD, LOMBARD-INING TERLES, NO. 5, GEORGE-IARD, LOMBARDSTREET, LONDON.—Mr. RICHARD THOMAS (who has had 20 years' experience as a mining agent in London) OFFERS his SERVICES in the PURCHASE and
SALE of MINE and OTHER SHARES, on commission. Purchases in many valuable
mines may now be made at unprecedently low prices. The fullest information given
(without charge) relative to mining investments and operations.
N.B.—R. T. has now ON SALE a limited number of SHARES in an undertaking offering unusual advantages, situated in one of the best mining districts in Cornwall.

Full particulars will be furnished on application.

JAMES LANE, MINING SHARE DEALER, 80, OLD BROAD-STREET, LONDON.

St., OLD BROAD-STREET, LONDON.

CENERAL MINING ASSOCIATION.—Notice is hereby given, that an EXTRAORDINARY GENERAL MEETING of the proprietors in this company will be held at this office, on Thursday, the 31st day of May, 1849, at One o'clock in the afternoon precisely, for the purpose of receiving and considering a report by the directors, announcing a dividend, and for other purposes.

And Notice is hereby also given, according to the terms of the Charter and Deed of Settlement of the Association, that the object of such meeting may be further known on inquiring at this office.

By order of the board of directors,

Office of the General Mining Association, 52, Old Broad-street, London, May 13, 1849

INZIGTHAL MINING ASSOCIATION.—In compliance with Art. 44 of the Statutes of this Association, the BALANCE-SHEET, as approved by the General Meeting on the 20th ult., will be DEPOSITED at the company's offices here, and the works, for the inspection of the shareholders, from the 26th May to the 15th of June.

George of the Report presented to the Annual Meeting may be obtained by shareholders.

TO ENGINEERS AND BOILER MAKERS.—The
BIRMINGHAM PATENT IRON TUBE COMPANY
MANUFACTURE PATENT LAP-WELDED IRON TUBES (under Mr. R. Prosser's
Patent) for Marine, Locomotive, and all Tubular Boilers. Also, TUBES for Gas, Steam
and other purposes. All sorts of IRON GAS FITTINGS.

WORKES—Smethwick, near Birmingham.
LONDON WAREHOUSE—NO. 6, Upper Thames-street.

THE STEAM-ENGINE.—W. BROTHERTON & CO. beg
to CALL the ATTENTION of ALL PARTIES EMPLOYING STEAM-POWER
to their PATENT PURIFIED OIL for the ECONOMICAL WORKING of the STEAMENGINE and other MACHINERY.
The adoption of its use effects a saving of 25 per cent. on the quantity required for luprication over any other oil; and its properties are such as to greatly preserve the hearprication over any other oil; and its properties are such as to greatly preserve the hear-

ENGINE and other MACHINERY.

The adoption of its use effects a saving of 25 per cent. on the quantity required for lubrication over any other oil; and its properties are such as to greatly preserve the bearings of machinery in general. A trial will prove the fact.

W. BROTHERTON & CO.,

PATENT OIL PACTORY, HUNGERFORD WHARF, CHARING-CROSS, LONDON

THE PATENT OFFICE AND DESIGNS REGISTRY,

INVENTORS will receive (gratin), on application, the OFFICIAL CIRCULAR OF
INFORMATION, detailing the eligible course for PROTECTION of INVENTIONS and
DESIGNS, with Reduced Scale of Fees.

DESIGNS, with Reduced Scale of Fees.

Measurs, F. W. CAMPIN and GO. offer their services, and the benefit of many years experience, in SECURING PATENTS and REGISTRATIONS OF DESIGNS, with due regard to VALDITT, economy, and dispatch—assisted by scientific men of repute.

Also, in MECHANICAL and ENGINEERING DRAWINGS, whether connected with Patents, Railways, or otherwise, by a staff of first-rate draftmen.

Application presenting to the latter, to F. W. Campin and Co. No. 210. Strand four.

Application personally, or by letter, to F. W. Campin and Co., No. 210, Strand (corer of Essex-street).

REPORT OF THE RAILWAY COMMISSIONERS.

The Report of the Commissioners of Railways to the Quom's Most Excellent Majesty, dated the 1st inst., sixtes, that in the year 1848 an increase was make in the railway commonitations of the country, growth and the third of the property of the commissioners, of which 751 miles were in England, 289 in Sootland, and 151 in Tesland, making the whole activated or allway communication at the end of the year 5007 miles, the proportion being for England, 298 in Sootland, and 151 in Tesland, making the whole activated or allway communication at the end of the year 5007 miles, the proportion being for England, 2918; for Sootland, 282; and for Ireland, 81 miles respectively. By the opening of the Chester and Holybead Railway, the communication between London and Dublin has been greatly facilitated. The mails are now conveyed within 17 hours, and the completion of that gigantic work—the tubular bridge across the straits—will effect a saving of one hour more. Themset Important addition to the railways in Ireland has been the extension of the South-Western Communication from Dublin—vix, from Rallybroughby to Tipperay and Limerick, by the opening of portions of the Limerick and Waterford and the Great Southern and Western Railways. The report urges the consideration of the fact how much remains to be completed of the whole extent of railways already authorised by Parliament; it being shown that at the end of 1848 upwards of 7000 miles of railway remained to be completed, no portion of the lines sanctioned prior to 1844, and only 90 miles of the railways sanctioned in 1845 and was presented to the same fact. I have a subject to the same fact of the 4800 miles of railway to the same fact of the same fact of the 4800 miles of railway to the same fact of the

ed by 26 Anatomical Coloured Engravings on Steel, On Physical Di ative Incapacity, and Impediments to Marriage. New Edition, on —Just published, price 2a. 6d., or by post, direct from the establis

THE SILENT FRIEND: a medical work, on the infirmities

THE SILENT FRIEND: a medical work, on the infirmities and decay of the generative system, from excessive indulgence, infection, and the inordinate use of mercury, with remarks on marriage, and the means of obviating certain disqualifications, illustrated by 26 coloured engravings. By R. & L. PERRY & Co., emsaiting surgeons, 19, Berner-street, Coxford-street, London. Published by the authors; sold by Strange, 21, Paternoster-row: Hannay, 63, and Sanger, 130, Oxford-street; Starle, 23, Titchborne-street, Haymarket; and Gordon 145, Leadenhall-street. PART THE FIRST treats of the anatomy and physiology of the reproductive organs, and is illustrated by six coloured engravings.—PART THE SCOND treats of the consequences resulting from excessive indulgence, and their lamentable effects on the system, producing mental and bodily weakness, nervous excitement, and generative incapacity; it is illustrated by three explanatory engravings.—PART THE FIRST treats of the diseases resulting from infection, either in the primary or secondary form, and contains explict directions for their treatment. This section is illustrated by 17 coloured engravings.—PART THE FORTH contains application, by which the danger of infection is obviated. This important part of the work should not exapt the reader's notice.—PART THE FIFTH is devoted to the consideration of marriage and its duties. The causes of uproductive unions are also considered, and the whole subject critically and philosophically inquired into.

THE CORDIAL BALM OF SYRIACUM is exclusively employed in treating nervous

he whole subject critically and philosophically inquired into.

THE CORDIAL BALM OF SYRIACUM is exclusively employed in treating nervous and sexual debility, impotence, &c., its and 33s, per bottle.—THE CONCENTRATED DETERSIVE ESSENCE, an anti-syphilitic remedy, for purifying the blood in cases of diection, secondary symptoms, eruptions, and the abuse of mercury, its and 33s, per ottle.—PERRY'S PURIFYING SPECIFIC PILLS, 2s. 9a., 4s. 6d., and its per box—critain remedy for genorrhoes, gleet, strictures, and chronic inflammation of the bladder.—Consultation fee, if by letter, 21. A full description of the case is necessary, isting age, habits, and position in society. Es puckets, with advice, to be had at the estained and the second in t

nice daily at 19, Berners-street, from 11 to 2, and 5 to 5; on Sundays, from 11 to 1.
Sold by Satton and Co., 10, Bow Churchyard; W. Edwards, 67, St. Paul's Churchyard trefay and Sona, Farringdon-street; Buller, 4, Cheapaide; R. Johnston, 63, Cornhill Hill, New Cross: W. B. Jones, chemist, Kingston; J. W. Tanner, Egham; S. Smith Indsor; J. B. Shilbeck, Bromley; T. Riches, London-street, Greenwich; T. Parkes codwick; Ede and Co., Derking; and John Thuriby. High street, Romford—of when we had the Silver Erich

Transactions of Scientific Bodies.

製厂加加	MEETINGS BURING THE ESSGING WEEK.
MONDAY	
	British Architects-16, Grosvener-street 8 P.M.
- 1000	Chemical Society of Arts, Adelphi 8 P.M.
	Medical-Belt-court, Flest-street 8 P.M.
	Pathological-21, Regent-street, Waterloo-place 8 P.M.
TURSDAY	Medical and Chirargical-53, Berners-street 81 P.M.
	Civil Engineers-25, Great George-street 8 P.M.
W	Zoological-11, Hanover-square 3 P.M.
WEDNESDAY	Society of Arts-Adelphi 8 P.M.
	Microscopical -21, Regent-aireet 7 P.M.
	Ethnological-17, Saville-row 8 P.M.
THURSDAY	
	Royal-Somerset-house 81 >.w.
	Royal Society of Literature-St. Martin's-place 3 P.M.
	Numismatic-41, Tavistock-street, Covent-garden 7 P.M.
PRIDAY	Royal Institution - Albemarle-street 81 P.M.
	Philological-London Library, 12, St. James's-square 8 P.M.
SATURDAY	Royal Botanic Inner Circle, Regent's Park 31 P.M.
SECUMPAL	Moyat potanto-indet Circle, negent s I min of F.m.

INSTITUTION OF CIVIL ENGINEERS.

the heat entirely.

INSTITUTION OF CIVIL ENGINEERS.

May 15.—Joshua Field, Esq. (President), in the chair.

The discussion on Mr. Hawkshaw's paper. "On a longitudinal continuous bearing Permanent Way," was continued; throughout the evening, to the exclusion of every other subject. Some interesting observations were made on the actual destruction of the cast-iron chairs and double-headed rails, and the advantages that would result from the more general substitution of continuous longitudinal timber bearings for the present transverse sleepers and cast-iron chairs. The gradual ameliorations that had taken place in the forms and strength of the bridge rails and their various fastatings were discussed; and it was contended that the hollow bridge rail was more durable than any other, that the upper surface was more compressed in rolling, and that the system of connecting the end, whether by rivetting to a plate, or by bolta and nuts, made a better and more even joint, and, therefore, produced a more level surface for the engines and carriages to run upon. The duration of the timber was declared to be such, that a second set of bridge rails had been laid down on the longitudinal timbers, whereas the cross sleepers had never been able to bear that. This, however, it was asserted, arose principally from common timber being used for the transverse sleepers, whilst the best kind, well creosoted, was used for the longitudinal bearers. The system of inserting a piece of hard wood between the rail and the main timber, as on the Great Western Railway, was much approved, as was also the plan of side transoms halved into the main timbers, as it enabled a better system of side transoms halved into the main timbers, as it enabled a better system of drainage to Le employed than had been sual with that kind of permanent way.

The new systems tried by Mr. Samuels on the Eastern Counties Railway, and of which several models were exhibited and described, received much commondation, particularly the plan for dispensing with the joint

IMPORTANCE OF THOROUGH VENTILATION IN COLLIERIES.

At the Society of Arts, on Wednesday evening last, Mr. Francis Winshaw ead a paper on the above important subject, by Mr. Engineon, the latter gen DR. LAWEIT ON THE SECRET INFIBMITIES OF YOUTH AND MATURITY.

Just published, and may be had in French or English, in a scaled envelope, 2s. 6d.; or pool-free, from the satisfact, for forty-two stamps.

O Marriage, and on the Secret infirmities and Disorders of Youth and Maturity, usually acquired at an early period of line, which enervate the physical and mental powers, diminish and embeloit the natural feelings, and exhaust the viral energies of Manhoud, in the entire of the properties of the secret infirmities and Disorders of Youth and Maturity, usually acquired at an early period of line, which enervate the physical and mental powers, diminish and embeloit the natural feelings, and exhaust the viral energies of Manhoud, the canada embeloit the natural feelings, and exhaust the viral energies of Manhoud, the canada embeloit the natural feelings, and exhaust exhaust the productive of different results, each producing more or less of the exhaust of the control of th tleman explaining, by diagrams on the walls, the various details. After al-lading to the vast importance of the subject, and the interest which was at the

will, of course, be impossible to follow the explanation in the absence of these; but the general plan recommended appeared to be with two shafts, a down-cast and an up-cast; space should be left to restillate the back roads, and thus all gases set free will be immediately carried from the men. The air is to be so split that one half should wentiate the goaf and the other half the coal face. There should be as many streams as there were stalls; and in these, when practical, the air should be returned. Mr. Edginton then further described his new plans of cutting headings from the roads to carry away the gas and air to the up-cast shaft, and connecting all the high levels together to drain the roofs. His system could be carried out is all existing workings, and the expense would be comparatively little or nothing, in propertion to the good effected, as naked candles might be used, and the coller pursue his work in perfect safety. He said the greatest evil at present in existence in the northern collieries was the want of any regulated arrangement in the ground works. In the Haswell Colliery (where, in the hat explosion, 75 lives were lost), for want of this arrangement, there were no less than 22 currents, or divisions, of air passing in all directions, and counteracting each other. Under the new system, on removing the walls, the currents of air should be reversed, and the safety of the mine would be continued. He size explained how, in case of fallen roof, by cutting the end of the roadway, up to a level with the roof, or cutting a way diagonally down to the roadway, the current of the air and the gas would be continued uninterruptedly. Mr. Edginton, at the conclusion, was applanded; and the Charimana, in the name of the society, returned thanks for his interesting paper.

Mr. Varnex called attention to the plan of Mr. Ryan, laid before the society

continued uninterruptedly. Mr. Edginton, at the conclusion, was applianted; and the CHAIRMAN, in the name of the society, returned thanks for his interesting paper.

Mr. Varner called attention to the plan of Mr. Ryan, laid before the society 30 years ago, and for which a pecuniary reward was given him. He believed this plan was generally admitted to be the most perfect, and yet its author had never been enabled to carry it out in practice. He considered that, when a plan was found to be perfectly efficient in the thorough ventilation of collieries, owners should be compelled to adopt it under heavy penalties.

A GENTLEMAN, whose name we could not catch (one of the vice-presidents), thought a compulsory act could never be effective; he particularly alluded to the deep mines of Darham, from 1600 ft. to 1800 ft. in depth, where the necessity of sinking two or four shafts must be left to the discretion and experience of owners and their engineers, who, for the salvation of their own property, would do all in their power to prevent these alarming accidents.

Mr. Gone inquired of Mr. Edginton whether his system was not more applicable to the long wall than the pillar and stall method of working coal mines?—Mr. Enginxon stechnically explained, in which we understood him that it might be made available to beth, as in the latter system artificial stoppings might be employed.—Some discussion then ensued on the merits of the safety-lamp on the principle of the Davy wire gauze protector, from which we could glean the general opinion to be, that it ought not to be trusted to as a means of safety; but only as a test as to the state of a mine at any particular moment. We think, however, not the slightest less degree of merit is due to the memory of Sir Humphrey, as being the first to take advantage of the beautiful property of a finely-perforated disc of metal, or wire geuze, in the construction of the collier's lamp. Although nothing particularly new was efficited, as Mr. Edginton's plan is as yet only in theory, still the

[From the Plymouth Journal.]

CARADON COPPER MINE.—This mine is in the parish of St. Clear, about half a ratie to the coult of the granite range of the Caradon Hills. Three lodes have been discovered, and an engine-shaft annk 30 fms., and levels extended east and west. The expenditure has exceeded 3000. The prospects of the mine cannot be said to be very encouraging but the locality and geological position are good.

and an engine-shaft sunk 30 fms., and levels extended east and west. The expenditure has exceeded 3000l. The prospects of the mine cannot be said to be very encouraging, but the locality and geological position are good.

Garadow United is also in St. Clear, and stuated about half a mile to the south of the justly celebrated west Caradon, on the borders of the granite. The engine-shaft has been sunk 40 fms., and several layers of rock, granite, spar, growan, passed through, which has the shaking to be very expensive. No require and well-defined loch has been more with, but there is some irregular lodey ground, in which spots of the and copper have been found, which have "slocked" on the adventurers, whilst the riches discovered in West and South Caradon Mines could not fall to be a strong incentive to perseverance. It is somewhat extraordinary that West and South Caradon are the only copper mines in this district which have as yet made any considerable returns to the adventurers.

Sograt Caraadon Wheat Hooper. The principal operations have hillserto been very productive, but for some time past the end of the main lode has been poor, and the agents are now compelled to do that which ought long since to have been close—increase their tutwork, and drive a cross-cut north to intersect their north lodes, which in the neighbouring mine. West Caradon, has been attended with measure state along the measurement of the present workings, in a large gossan lode. The monthly norther are about 2004.

Wear Caraadon which, in the parish of St. Crass, acquine South Caradon and the very considerable quantity of ore ground hidd open. A new shaft is being sank from the surface about 2004 from the present workings, in a large gossan lode. The monthly norther are about 2004.

Wear Caraadon with the Caradon, has been attended with measure about 2004 from the present workings, in the parish of St. Crass, acquine South Caradon on the west caradon who had been made at a surface and the proper of the present workings, in the parish of St

WHEAL FRANCO.—There is no change since our last. In our paper of last week we steet that at the general meeting on the 30th there would be funds sufficient to pay a widend of 37. per share, and leave payards of 4004, as the payers hands. It should have seen—34 one pound per share. With this amendment the announcement is correct.

dividend of 21, per share, and leave inwards of 4601, in the purser's bands. It should have been—"one pound per share." With this smendment he announcement is correct.

BIRCH TOR AND VITIESA MINEX.—Birch Tor Lode: The dividing and casing of Prideaux shaft has been completed. No lode has been taken down either in the 104 m. level seat or west. The shallow a lik has improved since the last report, and we have a good shoot of the in the level under that referred to in the rise over this level sooner than we had expected.—Valger Lode: We have begun the Bob pit at the old engine-shaft. We have taken down a piece of lode in the 10 fm. level east, and in the 10 fm. level west of Danstan's shaft, and the lode continues very good in both ends.

FLYMOUTH WHERS TROWAND.—The North Lode has been traced for a great distance, and above the addit which has been driven on fit by the ancients; all this ground as it approaches the boundary of this sett from the east has been carried way, clearly proving that it produced good work for tin; it has been seen at two points in this sett, the one above 100, and the other about 230 fms. from the ancient workings above referred to, and at each of these places.—The Bould Lode: The add it is not far behind the last mamed of these places.—The Bould Lode: The add it is still being driven to cut this lode, but the progress is slow. In Odger's shaft the lode continues gradually to improve. There is every reason to believe that this mine will amply compensate the adventurers for their many dampointments and great perseverance. The main engine-shaft is in the best possible position to take the south lode, which it will intersect at about the 20 fm. level, and we hope that the sinking of this shaft will be aspecilly resumed. There are liabilities on this mine, but as they do not amount to one-half of the value of the materials, they cannot be considered to be very heavy. An arrangement has been made to lesses a part of the power of this engine to the adventurers in Plymouth Wholl Yould provide th

PLYMOUTH WHEAL TROLAND EAST.—In consequence of the arrangements made with the adventurers in Plymouth Wheal Yeoland for leasing a part of the power of the engine pumps and flat rods have been purchased, and preparations are making to see this lode under the working of the angients. We wish them as good lack as their friends at Birch Tor

ACCIDENTS.

erthyr.—Henry White was killed in the Cwmbargoed as was killed by a fall of rubbish from the top, in on ph was killed by a fall of earth in one of the Dowlass to trains in one of the Penydarran coal levels.

by the trams in one of the Penyaarran coal levels.

Reds.—Jamps Hartley was so much injured whilst working at the Gelderd-read Collery, on Monday, that he has sines died. He was employed filling a corve, when a large maintity of top coal fell, and severely crashed his thighs and other parts of his body.

**Restey.—Geoffrey Williams and John Williams sustained severe injuries from falls of tope from the tep, in the levels belonging to the Llynvi Iron Company.

**Milifeld.—On Tuesday morning a young woman, named Mary Davis, was killed by a mankly of hot fromstone falling upon her, whilst at work at a mine at Milifeld Farnaces, elonging to Mr. Ridgy. She was burnt in a most shocking manner, and her body was general to her home in Gibbet-lame, to await an increast.—Microbiographysical Throughest.

belonging to Mr. Riley. She was burnt in a most shocking manner, and her body was removed to her home in Gibbel-lane, to await an inquest. Wolverhampton.—On Friday week a collier, named Thomas Small, sustained a compound fracture of his right leg, and was dreadfully cut about the head, by a fall of mine at the Bellfarm Colliery.

at the Bellfarm Colliery.

Staffordsbire.—A poor lad, named James Condilif, was buried allive at the Woodshults Colliery, by the sudden giving way of the earth. He had been with his faither's breakfast, who is a boatman, and went to the colliery, where he was Joined by two other lads, for the purpose of picking cost. The vein is nearly perpendicular, being near the outcrop, and while, in one of the hollows, the two lads feeling a treasulous motion of the earth, ran out, and called to Condilif to do the same, but he would get out. a piece of coal he was working at first. In a few seconds the whole sunk into the earth, and the two hoys ran for assistance. Every endeavour was made to recover than, and a pit was continued sinking from Thursday to Tuesday, when it was 16 yards deep, without effect, and it was dangerous to protect further. The ceal was being got in a regular manner, at 45 yards depth, which was completely indundated with earth, coal and steme. How deep the body lies it is impossible to conjecture.

Broomside, Durham.—T. Willey was killed by a fall of stone in the Adelalde Pit.

Constitutions, however Weak or Debilitated, May be completely being a supported by Holloway's Prila.—The extraordinary sale of these admirable sills throughout every part of the critised world is the most convincing proof of their efficacy in the care of various diserders. In cases of weak or dollitated constitutions, their properties are such as to purify the blood, invigorate the system, and establish the soundest health. Persons suffering from leveness of spirits, nervousness, imperient digestion, detaring of the convenience of the conv

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK. MEETINGS DURING THE ENSUING WHEK.

THIS DAT ... South Tyne Colliery Company—offices, at One.
City of London Gas-Light Company—offices, at One.

TUEDAY... Mutual Life Assurance Company—London Tavern, at Twelve.
Herne Bay Fier Company—Kings Head, Poulity, at Two.

Wednesday ... Runnaford Coombe Mining Co.—Black Eagle, Woolwich, half-past Five.
National Bank of Ireland—offices, at Twelve.
Law Fire Insurance Company—offices, at One.
Law Fire Insurance Company—offices, at One.
Crown Life Assurance Company—offices, at Twelve for One.

Saturday ... Great Britain Mutual Life Assurance Company—offices, at One for Two.
[The meetings of Mining Companies are inserted among the Mining Intelligence.]

SATURDAY "Great Britain Mutual Life Assurance Company—offices, at One for Two.

[The meetings of Mining Componies are inserted among the Mining Intelligence.]

THE PROVINCIAL BANK OF IRELAND.

An extraordinary general meeting of the proprietors of his bank was hold at their office, 45, Old Broad-street, on Thursday, the 17th Inst., for the purpose of taking into consideration, and confirming, if approved of, several resolutions unanimously adopted at an extraordinary general meeting of proprietors, held on the 16th of Aprillant, for effecting officers, and the state of the purpose of electing pur directors, in place of those going out by rotation, and receiving the report of the directors on the business of the past year. The purpose of confirming certain amondments in their charter, which had been submitted to a previous meeting; and, secondly, after that business should have been fransected, in order to hold their yearly general meeting for the purpose of confirming certain amondments in their charter, which had been submitted to a previous meeting; and, secondly, after that business should have been fransected, in order to hold their yearly general meeting for the purpose of celeting four dispensions of the proceeding during the past year. His first duty was to call on their secretary to read the advertisement convening the extraordinary general meeting. The Secaratary (Mr. Heavil) having read the advertisement accordingly.

The CHARLAN asid, that he had then to submit to them certain random the directors. He would proceed to read those resolutions, and put them seriors for confirming certain among positions and properties of the proceeding of the proceeding the properties of the process of the properties of the properties and property of the properties o

Leaving a balance of£64,305 10 11

To which there has since been added the amount of net profits for the year ending the 31st, being the last Saturday of March, 1849, after deducting the property-tax and all expenses, and providing for all bad and doubtful debts£45,733 5 6

conduct in the chair. (Hear, hear.) He was sure that that motion would be willingly and unanimously adopted by the meeting.

Captain Powres seconded the motion. He was the only person who had put any question that day to the chair and or the directors; but he could assure them that he continued to place in them the most unboanded confidence. (Hear, hear.) And he believed that every other proprietor participated with him in that feeling. (Hear, hear.) The resolution was unanimously adopted.

The CHALEMAN as alled and, in the first place, to express his exceeding gratification at having received the thanks of so numerous and highly respectable a meeting for his contact the chair. With respect to his brother directors, he felt convinced that they had fully merited the thanks that had just been awarded to them. He believed that there was not one among them who did not attend to his duties with the greatest carnestness, and whose whole heart was not devoted to the welfare of that establishment. (Hear, hear.) The attention which they gave to the affairs of the bank was not to be measured solely by their attendance at meetings of that kind; for they had devoted to its interest in other places much time and labour. He could assure the meeting that the amount of knowledge and ability he had heard brought to bear by their board of directors on banking affairs in freland had convinced him that no establishment could have at its head mon more capable of doing justice to the task confided to them. (Hear, hear.)

Sir B. Machamana, R.N., then proposed the thanks of the meeting to the local directors in Ireland, and to the other officers of the establishment, for their astifactory performance of their respective duties. He was sure that the meeting would adopt that motion by acclamation, as they must be well aware that the meeting would adopt that motion by acclamation, as they must be well aware that the meeting would adopt that for the greatest and the submitted of the seal and conditions the seal and conditions the seal and

directors could place the ulmost confidence. He believed that the different posts in their establishment—and some of them were of a very difficult and ardinous character— were filled by gentlemen admirably calculated in every way to discharge the duties in-trusted to them. (Hear, hear.)—The motion was unanimously adopted, and the meet-

NATIONAL PROVINCIAL BANK OF ENGLAND

NATIONAL PROVINCIAL BANK OF ENGLAND.

The annual meeting of this bank was held on the 10th inst., at the establishment, in Bishopsguse-street.—On the motion of Sir David Scott, seconded by Sir John Carperli, J. Floron Lauris, Eq., took the chair.

Mr. D. Robertson (the chair of the chair of

Leaving undivided profits at 31st Dec., 1848 £ 91,087 1 7

The Chairman moved the adoption of the report, after having made some judicious remarks on the subject of joint-stock companies and other matters.—Mr. Wade seconded the resolution, which was agreed to.

A resolution for a dividend, at the rate of 6 p. cent. per annum was passed unanimously. Robert Bell, Almon Hill, and Thomas J. Wilson. Esqs., were re-elected directors.

Mr. Gibb proposed that the thanks of the proprietors be given to Mr. D. Robertson, the general manager, and the other officers of the establishment.—Mr. HITCHEN seconded the motion, which was passed unanimously.

Mr. Robertson returned thanks on behalf of himself and the other officers of the establishment.—A vote of thanks was then passed to the chairman and directors, when the meeting addoursed.

BANK OF AUSTALASIA.

meeting adjourned.

BANK OF AUSTALASIA.

An extraordinary general meeting of this company was held, on Monday last, for the election of a director in the place of H. De Castro, Esq., deceased, which was well attended. Charles Mosshis, Esq., took the chair, and said that, Mr. Whitmore and Mr. Henriquez having withdrawn as candidates, there only remained two—viz: F. Kowsam, Esq., and Alexander Wilson, Esq.

Mr. Nawsam then presented himself to the meeting, and, after mutual explanations between him and Mr. Foster, respecting some observations made by the latter gentleman at a former meeting, observed that he had understood the directors had stated that they could not consistently assist him as a candidate, because of the course he had pursued, on several occasions, at the public meetings here. Now, as he was perpectly unconscious of ever having offered anything like a factious opposition to the board, or pursued a course which the circumstances and position of the bank did not warrant, he was quite willing to leave the point to the proprietors themselves, and at once rettre, if they were not fully satisfied with his conduct (uo, no); for it must be clearly apparent that the chief honour of a seat in this direction must arise from being placed there by the good-will and confidence of the proprietory. (Hear, hear.)

After some remarks from Mr. Wootton, who supported Mr. Newsam, upon the grounds of his being an old and large shareholder, and well acquainted with their affairs, Mr. Josua Wilson said, their first duty was to choose the best man. Mr. Newsam was known among them, and, from his high character and standing, there ought not, he thought, to be any question either on the part of the proprietors or directors. It had already been distinctly marked by a very large body of the proprietary that they wished to have Mr. Newsam in the direction, and he strongly deprecated this unworthy opposition to him on the part of the directors. The same case occurred at the London Joint-Stock Bank, where Mr. Block's election wa

come to vote for Mr. Wisson; but he should now certainty give his vote and all his interest to Mr. Newsam.

After Mr. Brownaros (a director) had spoken to the honour and integrity of Mr. Wisson, who, though not a merchant, he thought, would make a good member of the board a division was called for, when, after considerable difficulty in ascertaining the number it was declared by the chairman that there was a majority on the show of hands of sever in Mr. Wilson's favour.—Upon which a ballot was demanded on behalf of Mr. Newsam and the chairman adjourned the meeting till Tuesday, the 22d inst., for the purpose o taking the votes by ballot.

CALIFORNIA.

We have prepared a table showing the movements of gold from San Francisco up to the latest dates. We have endeavoured to give the names of individuals and vessel bringing the supplies, so that any error may be traced and corrected :-

ARRIVALS OF CALIFORNIA GOLD.	
Boston Marca hip Tzar, from Honolulu	100,000 55,000
", by Mr. Carter	5,000
Overland at St. Joseph, Miasouri	10,000
Ship Colchis, at New Loudon	5,000
Barque Alice, at Cold Spring	4,000
Total receipts	
Arrivals at London up to April 14	300,000 300,000
Islands	
Schooner at Mazatlan, March 14	240,000
Arrivals in France, reported by French papers	40,000
The state of the s	

Outlines of Botany; for the use of Families and Schools. By THOMAS GRAHAM, M.C.S.E.; in a course of six elementary lectures. London: T. Hookham, Old Broad-street.

Old Broad-street.

Although the science of Botany may, at first sight, not appear precisely suited to our columns, it cannot be denied that its connection with its sister study (fossil geology) renders it worthy of a longer notice than our space will at present allow. The author, as a botanist of no mean order, considered that a concise treatise was wanted by which the science could be rendered intelligible to the young mind, and has condensed into a very neat and elegantly got up volume a mass of information, containing the general principles of the science. The lectures were originally delivered at Hanwell Collegiate School, where this little work, as at other schools, has been adopted as a class book. This alone must stamp it with imperialisable value; and, in going through its pages, we find it stamped with that correct attention to order, and written in language avoiding as much as possible difficult technicalities, which must render it a pleasing companion to the young mind, generally imbued with a holy love towards the beauties of the floral kingdom. The classification of plants under the Linnean system is clearly defined, and the necessarily accompanying plates are of a very high order.

DUNN'S THERMO-ELECTRIC TELEGRAPH APPARATUS, FOR

PREVENTING THE EXPLOSION OF STEAM-BOILERS

DUNN'S THERMO-ELECTRIC TELEGRAPH APPARATUS, row
PREVENTING THE EXPLOSION OF STEAM-BOILERS.

In our last Number we gave a report of a lecture delivered by Mr. Dunn at
the City of London Literary and Scientific Institution, on the prevention of
the explosion of steam-boilers. Since then we have had an opportunity of
seeing the apparatus at work, by which he proposes to attain this desirable
object. The generality of inventions which have at various times been brought
before the public of the like nature have, for the most part, been founded upon
the principle of self-acting valves. These are dependent exclusively on the
pressure of steam in the boiler, and not upon temperature, which Mr. Dunn asserts to be the only true criterion of safety; and a great objection to the self-acting valves is, that their machinery is as liable to get out of order as the valve itself.

This invention professes to supply a gauge, or indicator, on which the engineer can absolutely depend. As its name expresses, it consists of combining
and applying the thermometric apparatus and electric currents, so as to ascertain the temperature and pressure of the water in the boiler. A tube, filled with
water, descends into the boiler, so as to come just below the water line, and is
bent in such manner as to come in contact with the boiler—this is securely fastened. In a branch at its upper end two glass tubes are fixed, also filled with
mercury, so that the whole forms one mercury chamber. In one of the
tables an iron float is placed with a piece of platina at its upper end; a standard
is fixed to the upper part of the boiler, but insulated from it by the glass. At
the upper part of the standard is a aliding piece, which can be moved up or
down, and fixed by a screw. Over one of the tubes is a lever, which at one end
has attached to it a wire that descends through a guide-hole in the cap into a
tube, there being at the lower end of the wire a point of platina, so that when
the float rises there will be an electric circuit formed. Wires

THE ÆGIS LIFE ASSURANCE SOCIETY.

The numerous and rapid additions to the existing establishments for the assurance of human life have, within the last 20 or 30 years, been most extraordinary, evincing, by their success, a great change in the habits of the people, and the growth of a more thritly and prudent disposition among the middle and working classes of the community. We have for several years past paid particular attention to the principles, proposals, and probable advantages of each new institution as their prospectuses have issued, and have continually discovered some new features of interest, and some advances on the old established rules, made to meet the improved and liberalised state of society. We have this week again to notice one just established under the above title. In the rules and tables before us, we observe some still further privileges to assurers, which are highly deserving of particular attention. The two most important of which we think are the following, the first relating to building societies:—Supposing a person, aged 30, holding five shares in a building societies:—Supposing a person, aged 30, holding five shares in a building societies.—Supposing a person, aged 30, holding five shares in a building societies, which is a security for the continuance of his subscriptions, or because he has received an advance on his shares, and mortgaged his property to the society, as security for the continuance of his subscriptions, or because he wishes that, at the time when the society will hen realise, to enable them to commence unshables, University of the continuance of his subscriptions, or because he wishes that, at the time when the society will hen realise, to enable them to commence unshables, University of the continuance of his previously, and annual premium of 12, 18s. 9d., a quarterly premium of 10s. 8d., or a monthly premium of 3s. 6d. This table is equally applicable to securing the future payments of any annuity for years, in case of the decease of the grantor prior to the expiration of the term thereof.

The ot The numerous and rapid additions to the existing establishments for the assurance of human life have, within the last 20 or 30 years, been most extraor-

will, as agents, take assurances for fire in the latter establishment.

Amsterdam Water-Works Company.—Among the many prospectuses which have recently appeared, is that of the Austerdam Water-Works Company, which is re-introduced to the public under the patronage of several indicated in the safe and legitimate carrying out of the objects of the undertaking. The prospectus informs us that Amsterdam contains about 200,000 inhabitants, who are wholly deprived of any supply of wholesome water, an article so essential to the health and comfort of human life. It appears that the present mode of obtaining "Nature's beverage" is by rain collected on the tops of houses, and conveyed into tanks or cisterns, and by boats bringing it from a distance of several miles, and then retailing the article to the inhabitants at the minimum price of 1d. per six gallons. Water thus secured, even though pure from its native springs, must, by the process of carrage and delivery before use, become noxious and objectionable, whilst the rain water, however pure it may fall from the heavens, when kept stagnent in leaden cisterns, soon partakes of the deleterious effects of the vessels which contain it. To remedy these evils, the present company have obtained a grant or concession from the Government and the corporations of Amsterdam and Haarlem, to bring a pure and ample supply of soft spring water from the sand hills near Haarlem, by means of covered pipes, in the same manner as conveyed here, at the rate of 11 gallons for 1d. Without going into the details of the prospectus, we may observe that the company has received every encouragement from the authorities and inhabitants generally, who hail the adoption of the proposed measure with the highest gratification. The estimates given by the engineering gentlemen are within the limits of a moderate outlay, whilst the profits are calculated at yielding full 20 per cent. Knowing the advantages arising to companies of this kind generally to be of the most remunerating character, we look upon t

MANUFACTURING INDUSTRY v MINERAL TREASURES.—Ever since the middle ages, when permission was given to commoners to amass fortunes by honest and persevering enterprise, the members of the industrial world have, from generation to generation, gradually enriched themselves by the acquisition of land, and persevering enterprise, the members of the industrial world have, from generation, gradually enriched themselves by the acquisition of land, workshops, warehouses, &c. To form a just idea of this source of opulence in the industrial community, like that of the French, Dutch, English, and Anglo-Americans, compare it with the source of the most fabulous treasures—with those treasures poured during three centuries by Mexico and Peru at the feet of conquerors who had little sympathy with industry. At the end of three centuries scarcely a trace of these rivers of gold is left upon Spanish ground. And what is the result? Whilst the four eminently industrious nations, by the simple manufacture of their woods, silks, and foreign cotton, by the working of their iron and mineral coal, by their fisheries, and the produce of their soil, have enriched the community, Spain has sunk into the depth of poverty—a fitting reward for its idleness.—Report of the (Paris) Society for the Encouragement of National Industry, 1848.

SOUTH AUSTRALIA—The following was the scale of wages paid in this co-

of National Industry, 1848.

SOUTH AUSTRALIA.—The following was the scale of wages paid in this colony, in December last, as appears by the Australian papers:—Miners, 30s. per week; labourers and carters, 21s.; whim boys, 10s.; ore-picking boys, 6s.; blacksmiths, carpenters, wheelwrights, sawyers, and mechanics, 38s.; smiths labourers, 25s.—Although upwards of 1000 persons arrived in Adelaide in 10 days, they all obtained employment within a week of their arrival. All the Irish orphan girls arrived at Melbourne, were engaged in two or three days, at wages from 7t. to 14t per annum. A respectable butcher offers to "aupply the best beef and mutton at 1d. per lb."

The Compendium of British Mining.

ORIGINALLY COMPILED AND PUBLISHED IN 1843. REVISED, CORRECTED, AND ENLARGED FOR THE "MINING JOURNAL."

BY J. Y. WATSON, ESQ., F.G.S.

DISTRICT OF ST. JUST.

WHEAL MARGARET TIN MINE is in the parishes of Uny Lelant and Tre wadnack, three miles from Hayle, and about the same distance from St The sett is three-quarters of a mile in length, and about 150 fms. wide, and is held on lease for 21 years, from 1841, at 1-24th dues, the lords being Messrs. Rodd and Tremayne, of Trebartha Hall, and Mrs. Sophia Pracel, Tyringham, Buckinghamshire. Conducted on the Cost-book Sys-In 112 shares, 79l. per share paid up; market value, 200l. Purser, Capt. W. St. Arthur, R.N., of Penzance; managing agent, Thomas Treweeke; resident agents, John Stephens, John Williams, and John Wren; 200 persons are employed underground, and about as many others, men, women, and children, employed in surface operations. The machinery consists of two draught engines, a 36 and 24-in cylinder, and two steamwhims; to the larger draught engine a stamping machine is attached. Operations were commenced in 1842, and the tin returned to the present time has yielded 60,000L, out of which 13,888L (or 124L per share) have been divided as profit amongst the shareholders. The sett contains three or four lodes, running nearly east and west in a granite country, and in the richest tin district in Cornwall. The water is very easy, and the lodes vary in size from 1 foot to 6 feet in width. Immediately to the north of Wheal Margaret is Wheal Mary, which has yielded a profit of 50,000L. To the north of Wheal Mary is Wheal Reeth, which made a profit of 75,000L, and is now being reworked. To the north of this is Reeth Consols, making large returns; and still further north is the celebrated old mine of St. Ives Consols (described in a previous notice), and which has made a profit of 120,000L. These mines are within a distance of 2½ miles of each other, and all on parallel lodes.

[To be concluded in next week's Mining Journal.] weeke; resident agents, John Stephens, John Williams, and John Wren;

[To be concluded in next week's Mining Journal.]

Mining Correspondence.

The Commissioners of Inland Revenue having notified to us their resolve to charge with advertisement duty all reports having the agents' names affixed, we appealed to them in a memorial, setting forth that we, or the respective companies, derived no advantage therefrom—the only object sought, or obtained, being that of affording to the mine advantage and the statements periodically set forth, by authenticating them, and thus fixing a responsibility on the writer. The Commissioners have replied, that "the reports, with names attached, are advertisements, and that day will be charged thereon." We have no alternative but submitting to their dictum. How far the Commissioners are correct in the view they take, our readers can judge as well as ourselves; —we can but hope that, on reflection, they will see the error into which they have failen, and rescind the orders they have issued. All reports inserted under this head, however, may, as heretofore, be considered as familished by the regular agents of the company; and we shall carefully guard against the publication or statements which cannot be relied on as correct.] doners of Inland Revenue having notified to us their resolve to charge

BRITISH MINES.

AYLESBOROUGH.—There is every likelihood of meeting with a good course of tin within a few fms. of the cross-courses, both east and west of Henry's shafts. I am given to understand, that the bunch of tin gone down to the west of the above shaft is dipping west—consequently the level dipping west—consequently the level dipping west—consequently the level in the old working, and the only thing to be done let shaft belong now 10 fms. deeper than the old working, and the only thing to be done is to extend a way the bottom levels under those runs of tin. I was sniverground a day or two since, but was unable to see the bottom, the water being in; the machinery was undergoing some repair; however, I intend to be at the mine again in a day or two.

BARRISTOWN.—The lode in the wunze sinking under the 16 fm, level is about 18 in, wide, with a small branches, thinly mixed with lead—the ground about it looks a little better; the lode in the back of the 16 fm, level is producing about 2 when the producing about 11 ton per fm; the lode in the back of the add with lead—the ground about it looks a little better; the lode in the back of the add little better; the lode in the back of the add little better; the lode in the sale with lead—the ground about it looks a little better; the lode in the back of the add lived into small branches, thinly mixed with lead—the ground about it looks a little better; the lode in the stope, in the bottom of the add level, is all tille improved; we shall unwater a good deal of the eastern bottoms under the add telvel this month, where the lode is much better for lead than the part we are now stoping.

BEDFORD UNITED.—At Wheal Marquis, the engine-shaft is progressing

so lode is much better for lead than the part we are now supping.

BEDFORD UNITED.—At Wheal Marquis, the engine-shaft is progressing worrably; there is no alteration in the 103 fm. level east. There has been no lode taken was in the 90 or 70 fm. levels east. In Burley's winze, under the 90 fm, level, the lode parties, Geing 18 fm. wide, and yielding 3 tons of ore per fm. The pitches are without made afteration.

nich atteration.

BRYN-AR-IAN (SILVER LEAD).—The engine-shaft is now down 8 fms. bew the deep adit level; the lode continues large, and yielding about 15 cwts. of lead ore
or fm. The stope back and bottom of the shallow adit level is now producing 14 ton of lead ore per
fm. The stope back and bottom of the shallow adit level is now yielding 14 ton of lead
to per fm. The lode in the adit level driving east from the shaft is large, with several
mail branches of ore.

small branches of ore.

CWM ERFIN.—We have just finished paying, and have set the following bargains:—The 20 fm. level east, by six men, at 120s. per fm. The stope from the end, 6 fms. west, six men, at 50s. per fm.; the stope west of engine-shaft, two men, at 40s. per fm. The 20 fm. level, west of whim shaft, four men, at 100s.; our 20 fm. level east is producing 1 ton of ore per fm.; the stope behind this end is worth 13t, per fm.; the stope 6 fms. west of ditto, 10t, per fm. The stope west of engine shaft is yielding 4 ton of ore per fm. On 20 fm. level, west of whim shaft, is poor. We are getting on pretty fast with our dressing, and the machinery working well.

bobind this end is worth 15f, per fm.; the stope 6 ms. west of airto, 10s, per fm. The stope west of engine shaft is yielding \$1 mo f ore per fm. Our 20 fm. level, west of whim shaft, is poor. We are getting on pretty fast with our dressing, and the machinery working well.

EAST TAMAR CONSOLS.—The engine-shaft has been sunk 3 fins, and it is now 7 fms. under the 70 fm. level. The progress made has not been so satisfactory as I could wish, in consequence of our having experienced some difficulty with the men; we have now a new pare, and I hope we shall do better. The lode in the bottom of the shaft has yielded, in the course of sinking the last fathom, very good stones of lead from a branch that appears to be lengthening as we proceed, and holds out a fair prospect of its continuing to increase. The 70 fm. level, north of the engine-shaft, has been extended 8 fms. 3 ft. : the present end is 22 fms. 3 ft. 6 in. from the shaft; the lode for shaft 15 fms. has been almost unproductive; but, for the last 8 fms., it has left ground that will set at a moderate tribute; the same level south has been extensed 4 fms. 2 ft. 6 in.; the present end is 24 fms. 6 in. from the shaft; and, for the greater part of this distance, the lode has yielded good awing work; at present, it is worth from 5 to 6 cetts. of lead per fm. A kew fathoms south the lode in the 60 was much more productive; and we have a wines sinking which will be communicated to this level in the course of a month, in which the lode is worth 14 cetts. of lead per fm.; the 60 fm. levels sorth has been extended is 3 ft. wide, and worth 10 cwts. of lead per fm.; the bottom shaft; the lode in the end is 3 ft. wide, and worth 10 cwts. of lead per fm.; the bottom shaft; the lode in the end is 3 ft. wide, and worth 10 cwts. of lead per fm.; the same level south has been driven 5 fms. I ft. 6 fm., and the present end is 50 fms. from the shaft; the lode in the end is 3 ft. wide, and worth from 5 to 6 cwts. of lead per fm.; in the shopes in the back of the level the lode is

last was 65 tons.

EXMOOR WHEAL ELIZA.—We have opened on the course of the caunter lode, in the 24 fm. level, between 2 and 3 fms. We feel great pleasure in being in a position to estate that an important improvement has falten place on this lode during the past week; it is still 3 ft. wide, producing good portions of copper, intermixed with masses of gossan and large rocks of mundle. Nothing can exceed the regularity and inviting indications of this lode; were there no other in the sett, its present appearance and character would warrant any necessary outlay; the cross-cent in the 24 fm. level, a flug towards the great north lode, is progressing very fairly; and there is but little doubt, if any, but it will be intersected about the time first ansmed. We know not another mine so likely to rival in riches the Great Devon Consols as this. The engine keeps the water. Everything connected with the working operations are progressing favourably. HOLMBUSH.—The water is now in fork at the 132 fm. level, and we have

HOLMBUSH.—The water is now in fork at the 132 fm. level, and we have resumed driving the north end to intersect the caunter part of the main lode. The ground in the 120 fm. level, south-east of Hitchen's shaft, is a little more renormals than it has been. The lode in the 120 fm. level south is 4 ft. wide, composed of quartz and load, worth 4t. per fm. The lode in the 110 fm. level exouth 54 ft. wide, composed of quartz and load, worth and least, worth 6t. per fm. We have this day set the men to trive the 100 fm. level exist, as the slap pack lode, which we hope will increase in size and value as it proceeds east.

KIRKCUDBRIGHTSHIRE.—The lode in the engine-shaft is above 5 feet wide, with gued atoms of lead on the south part, and a kindly spar. The lode in the 50 end east is about 18 in. wide, with a small branch of lead in the flookan part, very kindly. The lode in the 50 west is 1 ft. wide, and a sail is uproductive. The lode in the 40 fm. level west is 4 ft. wide, with a fine spar, yielding 7 or 8 cuts of lead to the fm. The lode in the winze under the 40, west of Keill's, is 3 ft. wide, and occasionally a good stone of ore-fm smen in the erons-cut in the 40 fm/ring south, at the bottom of the winze, have very favourable ground, and expect the lode in a few days.

LEWUS.—The lode in the 70 east is 24 ft. wide, with some meate of two these.

favourable ground, and expect the lode in a few days.

LEW 18.—The lode in the 70 cast is 2½ ft. wide, with some spots of tin; the 70, cast of engine-shaft, on the south branch, is worth 7t. per fm.—much improved since my last; the 70, cast of taider road winze, on the south branch, is worth 16t. per fm.; is the 70 wast, on the south branch, is the 10 wast, on the south branch, is lode is small, producing some rich stones of tin; the stopes in the back of this level are producing good quality work. The 60 cast, on Cock's branch, is 1 ft. wide, worth 7t. per fm.; the lode in the 60 cast, on Cock's branch, is 1 ft. wide, worth 7t. per fm.; in the whose sinking below the 60, on Cock's branch, is 1 ft. wide, worth 12t. per fm.; the stopes in the back of this level are vielding rich quality work. The 50 cast, on the south branch, is at present improduc-

tive: the lode in the 50, east of the engine-shaft, on Cock's branch, is 2 ft. wide, worth 102 per fm.; the lode in the 50, west of copper ore shaft, on Cock's branch, is 16 in. wide, worth 50. per fm.; in the 50 east of copper ore shaft, on Cock's branch, the lode is 16 in. wide, worth 64. per fm. The ground in the 40-south is still favourable. The 50 east, on the south branch, is worth 54, per fm. The south lote in the 10 fathers level

east is worth 6f. per fathom.

LLWYNMALEES.—We have opened on the lode in the 14 fm. level west for 12 ft. wide, and find it own throughout; it is 5 fms. behind the 14 fm. level end that we have opened this width, and from this, and the present appearances of the lode, I am lead to believe that we have a junction of the north and south lodes, and that the same are now going westward together; should this be the case, there will be no reason to doubt our having a good and long pleece of over ground westward. In the London staft we are getting into a strong powerful lode, with fine lumps of ore in it, and considerable quantifies of water springing out. I have no doubt I shall be able to give a fastering report of this shaft next week. We have about 6 tons of ore in course of picking and dressing, and about the same underground, and 13 ton at Aberystwith.

MENDIP HILLS.—During the nast weak I have worked the furnaces two

this shaft next week. We have about 6 tons of ore in course of pressure about the same underground, and 1) ton at Aberystwith.

MENDIP HILLS.—During the past week I have worked the furnaces two days; the produce of lead continues much the same as on former occasious—viz.: about a cws. of lead per ton of sings. In Charterhouse Valley we continue to lay open the cutting towards the eastern part of the valley, where I find the slagstuff to be about 16 ft. thick, much the same as regards quantity and quality as it has been for several weeks past—good work for yielding slags. In Uslay and Blackmoor slag ground we are using our utmost exertions to carry out the necessary operations for the efficient working of this part of the company's property. The different carriage reads are nearly completed, and the men are at present engaged in making the drain for taking off the water from Blackmoor dressing floors, and removing and levelling the ground for the dressing-floors at Utley. The carpentering work for the new workshops is completed, and hope to see the masons finish the roof by this evening.

at Utley. The carpentering work for the new workshops is completed, and hope to see the masons finish the roof by this evening.

MINERAL COURT.—I have inspected this mine, and found the sett to be extensive, containing several lodes embedded in granite strata, such as is favourable to tin; in one of these lodes an sail level has been taken up in the valley, and driven east 20 fms. towards the more clevated ground until 18 fms. deep, and pretty much of the back of the sail has been taken away for the tin it has produced, the operations noticed have been carried on principally by former parties; the present party have been induced, from the prospects of the mine at the sail thevel, to erect a water-wheel of 36 ft. diameter, for pumping, by virtue of which they have sank the mine 15 fms. below the adit, but have only seen the lode about 8 fms. down, and have driven a level a that depth 25 fms., which has produced 3004 worth of tin, and in the end at present the lode is from 3 to 4 ft. wide, and worth 19.1 to 151, per fm. for tin; and in a wince sinking below the adit, 7 fms. east of this 8 fm. end, there is a large tin lode, so, on the whole, it is pretty much more productive at the 8 fm. level below, than at the adit above. The engine-shaft is down 7 fms. below the 8 fm. level, and they propose to sink it 12 fms. below, and then to open a level at that depth 29 the open and the present party have been with great economy, and in a good mining-like manner, and i believe the chances to be favourable, with perseverance.

SOUTH TAMAR CONSOLS.—Having, in my monthly reports, given you

conducted by the present party have been with great economy, and in a good mining-like manner, and I believe the chances to be favourable, with perseverance.

SOUTH TAMAR CONSOLS.—Having, in my monthly reports, given you detailed particulars of the current operations, it may not, perhaps, be necessary on the present occasion to take more than a concise review of the progress made since your last general meeting, and of the future prospects of the mine. During March and April our operations were much impeded by the impossibility of procuring a sufficient number of horses to keep the whim going. The completion of the new engine has fully relieved us from this difficulty, and enables us to proceed in clearing the shaft, and all such levelsas we consider desirable for the present. The shaft is cleared, and made complete to a depth of 98 fms. from surface, and within about 3 fms. from the bottom; at the present point it is very small—not much larger than an ordinary winse. It will be quickly cleared, and, in all probability, we shall be able to examine the lode in the deepest level by the end of the present month. The 90 fm. level is cleared 28 fms. south, and 29 fms. north of the shaft, but no whole ground has yet been opened. The 80 fm. level has been extended 18 fms. south on the course of a most promising lode, and it has yielded from 7 to 8 cwts. of rich ore per fm., and left a great extent of valuable tribute ground. The 70 fm. level has been cleared 30 fms. south, but we are not yet home to the end, and can: ode once for the present, in consequence of the level being so low and narrow. In the 30 we are able, after clearing about 15 fms., to enter for nearly 50 fms., and are in great hopes that we shall succeed in bringing all the water back to the shaft in this level, which will effect a great saving to our engine. I cannot as yet speak confidently as to the quantity of ore that will be raised this month, but, I think, we may calculate on having about 25 tons by the end of this month. All the workings, so far

SOUTH WHEAL TRELAWNY.—The engine-shaft is in course of sinking ith 9 men, and ground favourable; water just the same as when last mentioned; engine

with 9 men, and ground favourable; water just the same as when last mentioned; engine continues to work well.

TRELEIGH CONSOLS.—Garden's shaft, below the 113, is sinking in the country south of the lode, and is down 5 ms. In the 113, west of ditto, the lode is 34 ft. wide, poor. In the 99, west of ditto, the lode is 18 in. wide, worth 44, per fm., still look ing kindly. In the 80, west of ditto, the lode is 18 in. wide, worth 44, per fm., still look ing kindly. In the 80, west of ditto, the lode is 10 in. wide, with stones of ore. In the 60, west of ditto, the lode is 24 ft. wide, with stones of ore, and is looking kindly. Wheal Parent shaft, below the 20, is sinking in the country, and is down 5 ms. In the 90, east of ditto, the lode is 18 in. wide, not much ore, but it has a kindly appearance; in the 90, east of ditto, the lode is 18 in. wide, poor; the 20 cross-cut south is driving in the country, ground harder. In the adit east, on the middle lode, the lode is 18 in. wide, worth from 6t, to 8t, per fathous, and it is a very kindly lode; we have raised 2 tons of good ore from this level during the past week.

WHEAL BAWDEN.—Our costean excavations being parent-level, and the bearings of the lodes found to be parallel with that the lower of trebarget, as also very similar in character, as recommended by Care.—In the late of the lower was a commended by Care.—In the adit rebut was companied by Care.—In the character, as also very similar in character, as also very similar in character, as also were similar in character, as recommended by Care.—In the lode in the 32 fm. level was companied by Care.—In the present, at 15s, per fm. The late about right angles from the point B, on rough sketch, the drivings of which, ingresable with my dialling and calculations, will be about 25 ms.; and with the view of testing the ground more accurately. I have set only 5 ms. for the present, at 15s, per fm. The lode in the 72 fm. level, north of this shaft, is 3 ft. wide, and worth 10t, per fm. at the same level south the lode

Monday, the 21st mst.

WHEAL VINCENT.—In sinking on the south lode we are breaking good work for the; I have this morning tried some of it after being stamped, and find it to be of most excellent quality. I forgot last week to mention that a pare of men had taken a pitch on tribute on the south lode, to the west of the shaft now sinking; they have broken a most excellent pile of tin, insamuch that another pare of men have taking a pitch at 10s. in 11, for which they have to kink a shaft to intermect the lode at their own cost—they have pitched this morning (May 17). Our stamps are continually at work, both day and night, and we have sufficient hands on the floors dressing; and in driving on the north lode, we have cut a great deal more water, which must proceed from the old workings some fathoms above us. We intend to-morrow to commence sinking and stoping in the bottom of those old workings, where there is at present a good branch of tin. We have not yet reached the lode in the streamer' deep entiting, but are daily expecting it. Our wheel is completed, and we hope by Tuesday to have our sinft a sufficient depth to throw in the lift, so as to commence pumping; the ground in the shaft is very favourable, being a soft decomposed granite. As our machinery is near the tarmpike-road, leading from Launceston to Bodimin, we have many inspectors; but, on account of fature it trust the driver will slack his hand as he passes on, that these statements may in fature be correct.

FOREIGN MINES.

IMPERIAL BRAZILIAN MINES .- Gold report-

From Gongo—February 23-24.... Lbs. 2 2 7 0
"" 25 1 10 3 0—Lbs. 4 0 10 0 March From Bananal Feb. 23-24 1 9 16 0

" 25-25 4 6 0 0

" 37 0 11 15 0

" March 9 10 6 1 0-Lbs. 17 9 12 0-Lbs. 21 10 2

93 lbs. 11 oz. 10 dwts. 3 grs. of gold dust (value about 4500%) has arrived at Fab ar *Penguin* packet. [No letters by this arrival.] No letters by this arrival.]

NATIONAL BRAZILIAN MINES.—Cocces, Feb. 23.—The improvement in the gold returns, before alluded to, has taken place at Hartley's eastern stope, where there has been some very promising samples obtained. The soctwall of the layer, at this place, acems to be turning considerably towards the south, which, if it continues in this direction, will be the cause of the Cavaco and the Bandeira verbs coming in contact long before we had expected.

March 2.—The greatest produce for one day, since the last report, is above 3 mks.—or, say, 193 oits.—but we are analysis of the last report, and daily expecting, some richer deposits than hare hitherto been found.

Cocaos produce.—from 14th to 23d Feb.

Cocaos ditto—from 62d Feb. to 3d March

Lil 4 3 71—19 3 6 45

Cuiaba ditto—from 6th to 16th Feb.

Cuiaba ditto—from 6th to 26th Feb.

Cuiaba ditto—from 26th Feb. to 6th March

Lil 4 2 16

Cuiaba ditto—from 26th Feb. to 6th March

Lil 4 2 16

Cuiaba ditto—from 26th Feb. to 6th March

Lil 4 2 16

Cuiaba ditto—from 26th Feb. to 6th March

Lil 4 2 16

Cuiaba ditto—from 26th Feb. to 6th March

Lil 4 2 16

Cuiaba ditto—from 26th Feb. to 6th March

Lil 4 2 16

Cuiaba ditto—from 26th Feb. to 6th March

Total produce..... 1/ks. 24 4 4 36

on the great increase of the cest in the first six months of 1848, as compared with the similar portion of 1847; but I cannot agree with them when they proceed to say "much greater in proportion apparently than the increase of the work done." Under these circumstances, let us compare the actual cost in 1847 and 1848, with the profits realised, in spite of such increase of costs during the same periods—

Total £37,919 18 per cent. £44,755 37 3-10 per cent. 59 per cent. Total £21,536 £32,269 49 8-10 per cent

Total........£21,836 £33,269 49 8-10 per cent.

Showing that in 1848 an increase of 18 per cent, in the cost has been attended by an increase of 30 per cent. In the profits. In 1848 the cost was somewhat higher than in 1847, asy 28,471L, whilst the profit amounted only to 14,820L; and, consequently, in comparison with the year 1848, would show results still more favourable to the latter. With regard to future costs, the board remark that, "the Powle's stamps being now in full operation, the expenditure under this head will cease, and will be limited to sustaining the efficiency of the earling stamping-power." This is perfectly correct, and yet 1 do not see the probability of any important reduction in our present rate of expenditure, assing that we no sooner get rid of the expenditure on stamps, than we have undertaken fresh works, which though not apparently so remunerative, are nevertheless highly important for the future welfare of Morro Velho-1 mean the two new inclined planes, one in the Baha, the other in the Cacheetra, besides the continued prolongation and alterations of the original line in the last-mentioned mine. We are also preparing to cretc new store house, estam-engine for smithy, rake for aliming, tunnels to be completed for new water course for Chrystaes' water, additional water-course for Bananal, a third hauling machine, new wheel for Herring's stamps, besides sundry matters of minor consequence.

Gold Extracted to date, 6400 oits, from 398 5-10ths cuble ft. of sand (being the produce of nine days' stamping), 16 1-10th oits, per cubic foot.

Samps Working 16 days, 9473 heads average.

Supply of Stone continues to be middling—sometimes, but not always, permitting us to reject a small portion of the killas.

Peb. 37.—Gold extracted to date, 12,314 oits, from 767-63 cubic feet of sand (the produce of 18 days' stamping). 16 1-10th oits, per cubic foot.

Supply of Stone continues to be middling—sometimes, but not always, permitting us to reject a small portion of the killas.

Feb. 71.—Gold extracted to date, 12,314 oits, from 767-63 cubic feet of sand (the produce of is days' stamping), 16-04 oits, per cubic foot.

Stamps Working 26 days, average 91-87 heads.

Supply of Stone.—The great improvement which has at length happily taken place in the sanatary state of the blacks, has had a favourable influence on the supply of stone from the mine, enabling us, during the last seven or eight days, to throw out rather freely the inferior qualities, and leading me to hope for a corresponding improvement in the produce of the last 10 days of this month, which indeed is greatly needed, as for the present we are sadly behind hand, principally owing to the stoppages caused by the defective millier of the Powles stamps. We have been most unfortunate in these milliers already two have given way, and now a third is in so critical a state that I am dreading every moment to learn that one side of the stamps is again obliged to stop; meanwhile our smiths are working night and day preparing another millier to take its place; but all this is attended with extensive stoppages, which must have an injurious effect on the month's produce. It is to be hoped that picking the stone as we are now doing, may tend to counteract, though perhaps only to a moderate extent, this unfortunate state of things.

March 9.—Produce of Fabruary 19,483 oits, equal to 187 4-10ths lbs. troy, from 5389 tons of ore, yielding 3 6-10ths oits, per ton. This is apparently a short produce as compared with the results of the presending four months; but, when you consider that this is in the results of the presending four months; but, when you consider that this is he produce of a month of only 28 days, and the heavy stoppage resulting from the second breakage of the millier, or gudgeon, at the Powles stamps, I trust you will agree with me, that this is a fair and satisfactory result.

Stamps Working during the mon

Net oitavas 18,120, at 7s. 7d...... £6870 10 0

Storm.—In my diary of 4th, 5th, and 6th, you will see an account of what we have suffered from one of the most violent storms of thunder and of rain ever witnessed by the oldest residents of Morro Velho. The damage and loss to us will be very serious, and, accompanied as it has been by other lots and stoppages detailed in my diary, it is to be feared that our March produce must suffer severely.

Inclined Planes.—Good progress has been made with both; but, since Monday last, that in the Bahu has been suspended, to enable us to turn our whole force on the second line of the Cachoeira, which is more urgently required.

West Quebra Panella.—We have advanced about 144 ims. on this lode, but latterly it has been dwindling away, and appears now to be wholly stopped by abar of killas, Capt. Treloar is, however, of opinion that we had lost the main lode, and had latterly been driving on merely a "tooth." He is now driving a cross-cut to endeavour to recover the main lode.

driving on merely a "tooth." He is now driving a cross-cut to endeavour to recover the main lode.

KAPUNDA MINES (Gourn Awsthalla).—The following are extracts of letters from coup. Esigot, dated Adolside, Dec. 30:—"The mine is now in capital working goster. All the shafts are down to the 30 fm. level, and we are getting the cross at make depth opened, so that we will soon have a large extent of all the lodes in a state to be productive. Hitherto we have only raised ores of high produce, as none others would stand the expense of transmission to Swansaa. When we can take an average of 14 or 15 percent. produce for smelting here, our quantity would be tenfold what we could otherwise send to Europe. We calculate that we could easily supply a smelting-work with ones of that average at the rate of 500 to 700 tens per month, and that even at the low rate at which the Burra Burra have agreed with the Schneider Company, our balance to profit from these quantities would be from 1900. te 2000. monthly. Hitherto all has been outlay with us, and fully 30,000/, have been sunk in bringing the mine into its present efficient working state. Our power and machinery are amply sufficient to carry as down at least as far again as we have gone, and that will be through that part of the mine from which, to judge by what is usual in most mines, the best results may be anticipated. We begin next month to sink to the 40 fm. level, and expect in three months to have it open for tributes. Schaeleder's people are advancing rapidly with their smelting, works at the Burra Burra; they have also made an agreement with the Kammantoo Bines. A smelting-work, on rather a large scale, is nearly ready to go to work near the port, and two small ones in the country are working. A company uss size been formed in Van Diemen's Land for smelting; there they have cal in abundance, which they say can be raised at 2s. 6d. per ton."

From a letter dated Jan. 8:—"We have just had the first tribute work of the 30 fm. level assayed, and, to our astonishment, it

IMPERIAL BRAZILIAN MINING ASSOCIATION.

The half-yearly meeting of shareholders in this association was held at the London Tavern, on Thursday last, the 17th inst.

JOSHUA WALKER, Esq., in the chair.

GEORGE THOMAS, Esq. (the acting director) having read the notice convening the meeting, and the minutes of the last meeting, which were confirmed, the CHAIRMAN observed that, previous to reading the report, he would, with permission of the meeting, make a few remarks on their present position. He behaved the shareholders were all aware that, up to the close of the year, from all Mr. Henwood's previous reports, the directors fully considered that their undertaking was in a prosperous condition. But the dispatches in Jan., to their great surprise, put a very different construction on things. They stated, that at Bananal gold was only to be found in one place. After the most mature consideration, he could come to no other conclusion than that it most mature consideration, he could come to no other conclusion than that it was a losing concern, and took so gloomy a view of their affairs as to recommend the immediately winding-up the undertaking, and withdrawing their property from the Brazils. He need not tell the proprietors that so sudden an apparent frustration of their hopes, not only took them by surprise, but nearly overwhelmed them. After due consideration, however, they determined to watch the progress of things for at least another month, and immediately wrote to Mr. Henwood, desiring him to make no alteration. They had since received no communication from the mine; but the returns of the daily gold proceeds since were, he was happy to say, more than sufficient to cover cost, and contradict the gloomy view taken by Mr. Henwood.—The Chairman then read the following report of the directors:—

Directors' REPORT.

The report which the directors have to present this half-year to the holders of shares in the Imperial Brazilian Mining Association will not confirm the high expectations presented at the last half-yearly meeting. At the same time, the directors take leave to offer an opinion that, if in the last report the anticipations of the chief commissioner were to sungaine, the conclusions he appears to have drawn in his recent dispatches are, on the other hand, too hesty and gloomy. It is now the duty of the directors to submit shortly a clear statement of the present condition and prospects of your affairs to the meeting the first time state affairs. singulae, the conclusions he appears to have drawn in his recent dispatches are, on the other hand, too heaty and gloomy. It is now the duty of the directors to submit shortly a clear statement of the present condition and prospects of your affairs to the meeting now assembled. For the first time since June, 1844, the produce of the mines afforded at the close of the dast half-year, a surplus over the cost of working, notwithstanding the expenditure included many charges not likely to be permanent, and some that would not occur again. At the mine at Gongo the stamps gave a regular and fair monthly produce, with reference to the labour, &c., engaged, although they were employed on masses of deposit thrown sades years aged as of no value. In the course of the half-year, the gold from this source has been 86 lbs 8 cos. 1 dwt. At Bananal, the produce of gold has been 175 lbs. 4 cos., and it must be observed that nearly the whole was obtained from one spot only—viz.: Thomas's shoft; and that this shaft, sunk only 135 lbs. sance the mine has been in our possession, has yielded nearly at the rate of 1600°, sterlings per fm. At the close of the year the vela was reported to have split into various parts, and to be pear. By the active exertions of the various members of the force in Brazil, most of the buildings were finished, and afforded accommodation to the establishment.

The mechinery was in excellent working order, and the additional pumping power sent from England in September last was regularly at work; a water-wheel (called Walker's), of 46 ft. diameter, had been constructed, and this, with three other wheels, wore faily supplied with water; and, in anticipation of a demand for further power, the directors had prepared, in this country, the fron frame, &c., for another water-wheel, called defined a force of the year the other wheels, wore faily supplied with water and, in anticipation of a demand for further power, the directors had prepared, in this country, the breat part of the tenther wheels, were faily sup

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dewater at the then desposs shaft (14 fms. under adit only) was ten great to be evercome in the pumps then at the nature, and that to sink despore was impracticable. This unserview, the pumps then at the nature of the case, and that to sink despore was impracticable. This unserview is a support of the case, and the pumps of the case, are at the pumps then at the case are at the case are at the pumps of the case, are at the pumps of the case, as a support of the case in the case, as a support of the case, as a support of the case in the case, as a support of the case, as a support of the case in the case, as a support of the case, and the case, as a support of the case, as a support of

DR. Balance-Sheet.
Balance of statement 30th June, 1848
Ditto, London
Ca. Total£22,146 4 7
Half year's dividend on stock, less income tax
Ditto ditto Bananal 7191 10 2−10,332 9 4 Loans and investments in Brazil 3,242 6 7 Amount reserved on calls 2,264 10 0 Balance carried do πa 577 4 10
Total£22,146 4 7
LIABILITIES.
Bajance brought down £ 577 4 10
Arrears of salaries and wages due
Exclusive of mines and estates, sums expended thereon, mining implements, stores, cuttle, &c, consists of the reserve fand of 25,0001. 34 per cent. £25,000 0 0
The analysis of the state of th

P.S.—The directors have pleasure in stating that the quantity of gold raised from the tail of January to the date of the latest advices (the 2d March) amounts to 78 lbs.; the last day's produce from Bananal is 10 lbs. 6 czs. 1 dwt.

Baron Goldshild barons and is 10 lbs. 6 ozs. 1 dwt.

Baron Goldshild observed, that there was nothing novel in the view of the case, as to the necessity of sinking a 50 fin. level. This was Mr. Hitchins's original calculation, and he always said, until such had been done, the mine would not be developed. At present it was only down to a 14, and since the melancholy amnouncement of Mr. Henwood, 10 lbs. of gold in one day, 6 lbs. in another, and other large average returns, had been received, which would render it madness on the part of the directors to adopt Mr. Henwood's recommendations. In fact, he would not have heastated to have taken the whole responsibility on his own shoulders, and if it turned out a complete failure, no blame could attach to the directors.

Mr. Girson explained, that Mr. Henwood was a good geologist and miner.

blame could attach to the directors.

Mr. Ginson explained, that Mr. Henwood was a good geologist and miner, but not a first-rate mechanic; while Mr. Hitchina possessed all the requisites of an experienced mechanical and mining engineer.

Mr. DUVAL, formerly chief commissioner to the association in the Brazils, also addressed the meeting in favour of their present prospects with proper management; when the report and accounts were unanimously adopted, the director and auditor going out re-elected, and thanks having been voted to the chairman and directors, the meeting separated.

CARADON WHEAL HOOPER MINING COMPANY.

CARADON WHEAL HOOPER MINING COMPANY.

A meeting of shareholders was held at the mine, on the 5th instant, when a statement of accounts was produced, showing balance against the company of 2081. Its. 9d.—the unpaid calls amount to \$200.4 a. 6d. The accounts were passed, and a call of \$0s. per share made. It was resolved to drive south until Pearse's lode is cut, and that the shaft be sunk until Dav's lode is intersected. A list of defaulters has been printed, and it has been determined that they all be sund for their arrears. The following reports, from Capts. W. B. Collom and John Seymour, and Capt. J. Spargo, were read to the meeting:—

**May 2.—Since the last meeting the \$5 fm. level cross-cut has been driven south 14 fms. 4 ft., making in all 51 fms. Pearse lode must have taken a more perpendicular position, clse it would have been cut ere this, as we anticipated at the last meeting. In the present end there is a large capel, and it is likely this may be the capel of the ide; the ground at present is rather hard for driving. We would recommend this end to be continued on with all force, to intersect and prove this lode. The \$5 fm. lavel, going west on Daw's lode, has been driven in all 15 fms. 2 feet; this lode has not yet reached the granite, and the last 7 fathoms it has turned off from its original course 70 or 8° south, which will make the distance to reach the granite as it did some fathoms back; we have no hopsa of this lode, expect it could be cut in the granite. With regard to the Saw-pit lode, the wince mentioned at the last meeting as sinking under the 50 fm. level was carried down 2½ fms., at which place, from the increase of water and hard nature of the ground, this place was stopped by reason of the great expense it would take to sink it: the lode in the bottom of the winze was promising, although small. The only plan to effectually prove this lode would be to drive a cross-cut to it at deeper level; the distance this lode is off from the shaft is 33 fms. Agreeably to wish, Kitto's lode, in Sout

HERODSFOOT MINING COMPANY.

A general meeting of shareholders was held at the mine on the 10th inst., when the statement of accounts was audited and passed. A resolution was also passed, directing the purser to apply for a reduction of dues.

The following is an abstract of accounts presented to the meeting:—

									12	8			
cost and	material	S	****					990	12	0			
ditto													
ditto	ditto	****						1451	17	3-	-4243	5	9
								1158	19	6			
t in form	er parce	1, 54. 13	s. ; su	ndries	, 57	*****		10					
								549	7	5 .	-4243	5	9
	cost and ditto ditto ved since lead ores ditto d ditto d t in form	cost and material ditto ditto ditto ditto ved since last acc lead ores sold (10 ditto ditto (11 ditto ditto (11 ditto in former parce	cost and materials ditto ditto ditto ditto ved since last account lead ores sold (100 tons) ditto ditto (110 tons) ditto ditto (101 tons) t in former parcel, 5f. 13	cost and materials ditto ditto ditto count lead ores sold (100 tons) ditto ditto (110 tons) ditto ditto (101 tons) t in former parcel, 54. 13s. su	cost and materials ditto ditto ditto ditto ditto ditto ved since last account lead ores sold (100 tons) ditto ditto (110 tons) ditto ditto (10 tons) ditto to (10 tons) t in former parcel, 51. 13s.; sundries	cost and materials. ditto ditto	cost and materials ditto ditto ditto ditto vod since last account lead ores sold (100 tons) ditto ditto (110 tons) ditto ditto (101 tons) t in former parcel, 5t. 13s.; sundries, 5t.	cost and materials ditto ditto ditto ditto vod since last account lead ores sold (100 tons) ditto ditto (110 tons)	cost and materials. 990 ditto ditto 1233 ditto ditto 1451 ved since last account £ 176 lead ores sold (100 tons) 1105 ditto ditto (10 tons) 1243 ditto ditto (10 tons) 1158 t in former parcel, 57. 13a.; sundries, 57. 10	cost and materials 990 12 ditto ditto 1223 3 ditto ditto 1451 17 ved since last account £ 176 5 lead ores sold (100 tons) 1105 0 ditto ditto (10 tons) 1243 0 ditto ditto (10 tons) 1158 19 t in former parcel, 51, 13s.; sundries, 57. 10 13	ditto ditto 1223 3 10 ditto ditto 1461 17 3- vod since last account £ 176 5 10 5 10 lead ores sold (100 tons) 1105 0 0 ditto ditto (101 tons) 1243 0 0 ditto ditto (101 tons) 1158 19 6 t t in former parcel, 5d. 18s.; sundries, 5d. 10 13 0	cost and materials 990 12 0 ditto ditto 1223 3 10 ditto ditto 1451 17 3—4243 ved since last account £ 176 5 10 lead ores sold (100 tons) 1105 0 0 ditto ditto (110 tons) 1243 0 0 ditto ditto (101 tons) 1153 19 6 t in former parcel, 54, 13s.; sundries, 54 10 13 0	cost and materials 990 12 0 ditto ditto 1233 3 10 ditto ditto 145 17 3-4243 5 ved since last account £ 176 5 10 lead ores sold (100 tons) 1105 0 0 ditto ditto (10 tons) 1243 0 0 ditto ditto (10 tons) 158 19 6 t in former parcel, 51. 13s.; sundries, 5f. 10 13 0

WEST WHEAL JEWEL MINING ASSOCIATION.

The annual general meeting was held at the offices, Old Broad-street, on fonday last,

JAMES HERRON, Esq., in the chair.

The CHARIMAN having read the advertise-nent convening the meeting, the INCRETARY (Mr. Nicholson) proceeded to submit the following reports:—

Secretary (Mr. Nicholson) proceeded to submit the following reports:—

DIRECTORS' REPORT.

In submitting the following report your directors have, in the first place, to observe, that no material alteration has taken place in the prospects of the mine during the past year; yet it cannot but be satisfactory to the siarcholders to know that the current expenses have been met by returns from the mine, notwithstanding the unprecedently low price of both tin and copper during the last nine months of the preceding year. Tregoning's shaft, so note tin lode, which was commenced from surface 50 fms. west of Quarry shaft, is in course of sinking below the 12 fm. level; when this completed to the 36 fm, level, which may probably require about two months to accomplish, the levels which have been suspended until the shaft is down will then be resumed and extended west; and, from present indications, there is every probability of valuable discoveries being made in that part of the mine. A cross-cut has recently been commenced at the 57 fm. level, north from Buckingham's lode, with a view of cutting the tin lode at that depth. This your directors consider to be an object of much interest, as it will interest the lode 27 fms. deeper than the present workings, from which so much tin has been raised. Reports will be read from the committee of management and also from the agents, by which it will be seen that, as soon as the winzes now in course of sinking are completed, additional one ground will be opened that will set at moderate tribute.

The financial statement for the past year will be laid before you, which your directors confidently hope will be deemed satisfactory. With regard to the call of 10s, per share, made at the last annual meeting, divided into two instalments of 6s, each, there now remains in default 70 shares upon which both instalments are due, and 80 shares upon which both instalments are due, and 80 shares upon which the first only has been paid. These shares have become forfeited by the Deed of Settlement,

MINIOG CAPTAINS' REPORT.

MINIOG CAPTAINS' REPORT.

MOST T.—The 85 fm. level, on Wheal Jewel lode, is extended 18 mm. west of Williams's cross-course. When the winze in the bottom of the 57 is communicated to the 76 fathom level, we shall set another winze in the bottom of the 70 fm. level, to see where the ore is making down towards the 88 fm. level; if it is, we shall resume driving the 85 with all speed. The 70 fm. level, west of Williams's cross course, on the same lode, is driven west from cross-cut 40 fms., through ground that will set at moderate tribute—say, from 52, 56 fm. 14.—when the winze is communicated to this level; the tode in the present and is 2 ft. wide, unproductive. We have set a rise in the back of this level to rise against the

winze in the bottom of the 57 fm-level, worth 104. per fm. The 57 fatham level, west of Williams's cross course, on the same lode, is driven west of cross-course 33 fms.; the lode in the present end is unproductive. We have one pitch working in the back of this level, at 6s. 6d. in 14. We have a winze sinking in the bottom of this level; when it is communicated to the 70 fatham level, it will enable us to set tribute pitches that will work at moderate tribute. The lode in the winze in the bottom of the 57 fm. level, west of Williams's cross-course, on the same lode, is driven 12 fms.; the lode in the present end is worth 64. per fathom; this ground will work in a moderate tribute—asy, 6s. to 7s. in 14. The deep adit is driven west of Williams's cross-course 5 fms.; in 8 or 10 fms. driving we shall get over the orey ground that we had in the levels below: if it should hold up to the adit level it will enable us to increase our samplings. The 30 fm. level, on Tolcarne tin lode, is driven west of Quarry shaft 58 fms.; for the last 3 or 4 fms. the ground has been looking more promising for tin; this level is suspended until Tregoning's shaft is communicated to the same; this will be accomplished in about two months. The 12 fm. level, on the same lode, is driven west of Quarry shaft 56 fms., and is suspended until Tregoning's shaft is communicated to this level. This will be done in one month, when we shall resume driving this level; we have every reason to believe it will be greatly improved in driving west, according to its present appearance. We have six men driving north at the saft level to communicated to this level. This will be done in one month, when we shall resume driving this level; ye have every reason to believe it will be greatly improved in driving west, according to its present appearance. We have six men driving north at the addit level to communicated to this level. This will be done in one month, when we shall resume driving this level 12 fm. level by feur men, will be communicated to the 30 fm.

The following statement of accounts were then laid before the me	eting	:-	
Cash in hand at last meeting.	-1787 1852	10	0
Total		35	2
Balance owing Redruth Bank last year Cost for 12 months, exclusive of merchants' bills Merchants' bills Lords' dues Interest, &c., paid the bank Balance	\$1079 5258 1260 291 62 863	12 3 2	673272
Total	£8815	16	2
ASSETS.			
Cash in hand	£ 863 284		5
Less advanced to tributers 155 19 3-			9
Estimated amount of 16 tons of tin ore at surface			0
Total LIABILITIES.	£ 1625	7	4
Owing Messrs. C. and J. Harvey			3
The CHAIRMAN remarked, that after the detailed reports which	h had	be	en

The CHAIRMAN remarked, that after the detailed reports which had been submitted to the meeting, he need not detain them by any lengthened observations; at the same time he begged to call their attention to the circumstance, that of the call of 10s. per share made at the last general meeting, divided into two instalments of 5s. each, there remained in default 70 shares, upon which heither instalment had been paid, and 89 shares upon which the first only had been paid, and by the Deed of Settlement the same had become forfeited; it, therefore, remained with the meeting to say whether a short time time should be granted for that purpose—when it was unanimously resolved that one month from that date should be allowed for the purpose of paying up all arrears of calls, in default of which they would be irrevocably forfeited, which the sceretary was requested to communicate to the parties interested.

The reports and accounts having been unanimously received and adopted, Mr. Herron being re-elected (having gone out by rotation), and unanimous votes of thanks passed to the country management, as also the chairman and directors, the meeting adjourned.

WELLINGTON MINING COMPANY.

WELLINGTON MINING COMPANY.

A meeting of shareholders was held on Tuesday, the 15th instant, at the offices of the company, George-yard, Lombard-street.
THOMAS FIRED, Esq., in the chair.
After the usual preliminaries, a statement of accounts was presented, showing:

By sale of tinstmf £126 0 5 Costs for January £223 7 4 Ditto copper ore 612 12 5 £768 12 11 Ditto February 244 12 4 Less dues, 1-18th 42 14 0 Merchants' bills 137 15 4

year; yell cannot but be stifactory to the size holden in the present of the mine during the pense have been met by returns from the mine, notwithstanding the suppresentably the supercedental proof of both this and copper during the last aim months of the preceding year. Trying of both this and copper during the last aim months of the preceding year. Trying of both this and copper during the last aim months of the preceding year. Trying of both this and copper during the last aim months of the preceding year. Trying of both this and copper during the last aim months of the preceding year. Trying of both this and copper during the last aim months of the preceding year. Trying of both this and copper during the last aim months of the preceding year. Trying of both this and copper during the last is down will hen be recembed and act standed with the last is down will hen be recembed and act standed with the last is down will hen be recembed and act standed with last last of the dark is down will hen be recembed and act standed with last last of the dark is down will hen be recembed and act standed will have been supported until the last is down will hen be recembed and act standed will be also the dark in the last is down will hen be recembed and act standed will be also the last the last the last is down will hen be recembered and the last th

December cost £65	
January ditto 66	Sind and something stones
February ditto	2.12 9 TY of hour
Balance profit	0 15 2-£2293 0
Jan. 13-Balance on ores sold November £ 1	0.18 6
March 5 Dres sold, 54 tons 20 cwts	211. Carle Common Ser 9110411
April 19 - Ores sold, 68 tons 13 cwts, 2 grs 128	a of 19 Tringer at IL
Arrears of call	2 0 0 - £9293 Oo
Balance brought forward 2007 Its 2d a ditto from and of Nov 196	

The following report was read to the meeting:

May 9.—The lode in the 50 fm. level, south of Barratt's shaft, is 4 ft. wide, and worth \$2 per fm.; we are preparing to sink a winag under this level, north of the shaft, near he boundary, and hope to sink to Wheal Trelawny 62 fm. level in two months; the topes in the back of this level are looking well. The lode in the 40 fm. level, south of his shaft, is 2 ft. wide, worth \$1, per fm.; the stopes in the back of this level are also obting well. Pollard's shaft is sunk to the 50 fm. level, and we have commenced driving rest, and hope to cut the lode at this level by the end of the present month. The lode is the 40 fm. level, north of this shaft, is 2 ft. wide, and worth 161, per fm.; the stope in he back of this level is looking excedingly well, producing nearly 2 tons of lead per fm.; to lode in the same level south is 1 f ft. wide, composed of can, apar, and lead, worth 41. or fm.; the lode in the 18 looking the shaft, is 3 ft. wide, composed of can, apar, and lead, with express the side of the level, is split into two or three lymanches, sing disordered by a slide. The lode in the 30 fm. level, south of this shaft, is also disdered by a slide, and is now split into branches, composed of can, spar, harvies, and ad; the stope in the back of this level is also looking well. The lode in the 15 fm. level, but of this shaft, is 6 in. wide, composed of can and lead, with every appearance of an approvement shortly. In conclusion, we beg to say that from our present prospects we an fairly calculate to raise about 60 tons of ore per month in future.

CONSOLIDATED MINES.—The usual two-monthly meeting of adventurers took place at the account-house, on Wednesday last, when the accounts, as follow, were passed, showing.—By balance from last account, 471. 2s. 2d.; orea sold, deducting dues, 70751. 3s. 8d.=71221.5s. 10d.—To costs and merchants' bills, 70593. 8s. 3d.: leaving balance in favour, 621. 17s. 7d.

LLWYNMALKES MINE.—The two-monthly meeting of adventurers was held on Tuesday, the 15th inst., at the office, Coptball-court.—The meeting was well attended, and great satisfaction was expressed at the flattering prospects of the mine, in proof of which it was stated that the call of 10s. per share, due on the 3d of May, had been fully responded to by all the shareholders, and consequently no shares were forfeited. The balance in favour of the mine was declared to be 2244. 19s. 9d. after paying the expenses and costs to the end of March, and including a sale of 12 tons of lead ore, producing 1451. 9s. 6d. It was further stated that a few more tons were about ready for market. Mr. Murray was requested to visit the mine and make a report. The meeting then separated.

requested to visit the mine and make a report. The meeting then separated.

Quebec Mining Company.—Mr. O. H. Mathews, the superintendent of the mining establishment at Mica Bay, forwarded his usual monthly report to the directors at Quebec on the 9th March last, from which it appears that Bonner's adit and Tram road level was communicated to Albert's shaft on 23rd Feb. It is now about 250 feet in length, and has been cut through solid chlorite slate. There had been a greatly increased cost for draining an accumulation of water caused by very heavy and continued rains. In driving, the men met with a lode from 2 to 3 ft. wide, composed of quartz, chlorite, rich copper ore, zinc and silver bleude, argentiferous galena, &c.; but they had not yet been able to determine if it be a part of Paterson's lode, or one of the cross veins—it would, however, yield a produce of from 50 to 60 per cent. These observations refer to the west end of the mine. In the east end, No. 2 cross-cut, in shallow adit level, was 70 feet down, the width of the lode 45 feet, and highly promising. It is a champion lode, and traversed by leaders of rich grey sulphurets and oxides of from 40 to 60 per cent. The stamping department and saw mills were in an advanced state. Smelting department, roads, and other surface work were also progressing favourably. He further states that "The weather had undergone a great change during the week—ther, 30 above zero at 6.A.M.—so that I presume this will be the last land mail for this season; if so, it will be at least six or seven weeks before I can have another opportunity of again communicating with the directors. But being anxious to communicate with you up to the last possible moment before the mail left, I visited the mines at an early hour this moment worth from 604 to 704, per fm. We are expecting to communicate the deep adit level to last year's working every hour."

MINING NOTABILIA.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

GOOD MINING PROSPECTS.—A correspondent writes to us—"What do wise people enter into mining adventures for, but the expectation of good dividends? Then (he adds) take the advice of an old adventure, and try your luck in one or all of the three following concerns, which will declare dividends, out of clear profits, either in June or July, and likely to continue every two or three months:—TAMAR, with the smelting-works, are now out of debt, and making large profits; I can scarcely point out any other concern possessing such secure advantages under the name of mining shares. Then there is Tincoptr, with a new lease of 21 years, at the low dues of 1-24th, the averages being 1-15th or 1-16th; this mine is making great profits, and very much improving. CONDURROW is under the best of management (as are the other two), has now, as it is termed, turned the corner, and expected to pay dividends every two months; lease 17 years to run, at 1-20th dues. The bottom of the shaft is reported to be worth 40t per fm. in April, and now improved to from 120th to 140th by a disinterested captain, employed to view the mine for a shareholder. Shares in this mine may be, in a short time, worth hundreds per cent. more than at present."

East BULLER.—This sett, which has occupied some time in the interest.

Shares in this mine may be, in a snort time, worth numerous per cents more than at present."

EAST BULLER.—This sett, which has occupied some time in making the necessary arrangements, is now completed, and operations have commenced under a very influential company. This mine joins West Buller on the east, and has the South Basset, West Buller, and Wheal Buller lodes; is bounded on the south by Penstruthal, on the north by Wheal Beachem, which sett is also included in this. R. H. Pike, Esq, is the purser; and Capt. James Evans, jun, of North Pool, the manager.

of North Pool, the manager.

WEST BULLER.—This mine continues to look well; the shaft, which is sunk 8 fms below the 14 fm level, will produce 5 tons of ore per fm.—that is, 6 ft. long and 6 ft. high. The 14 fm. level is extended east 12 fms. through ore ground, and will yield on an average 7½ tons per fm.; there is a winze snaking below this level which is now sunk about 4 fms. and will now yield 6½ tons per fm; the 14 fm. level is driven west of the shaft 21 fms. through ore ground, and will produce on an average 5½ tons per fathom; the present end will produce 4½ tons per fathom. We are also informed by an eminent mine agent who has recently inspected the mine, that, according to present prospects, they can raise fairly 500 tons of ore per month, worth 6t. per ton.

OLD WHEAL PROSPER TIN AND COPPER MINE.—The district of St. Austell is generally considered to be one of the finest tin districts in the county, and the above is situate in the parishes of St. Ewe and St. Mewan, bounded on the west by the Great Hewas, and on the east by the Great Polgooth Mines, and is three-quarters of a mile in extent on the run of the lodes. The Hewas lodes traverse its entire length, and the south lodes of Polgooth run through part of the sett on the north. It is said that this mine has been well known to the mining community for the last half century, and that it presents greater surface workings than almost any other mining property, and its proximity to the two mines mentioned above speaks much in its favour, particularly when taken into consideration with its highly favourable indications and the number of lodes visible. The strats is represented as of a highly favourable character, being a free light killas, very easy for driving, and standing safe without timber. Copper ores have been found in clearing up the old workings, with a produce of 45 per cent. The grant is for 21 years, at 1-18th dues, a lease of which is to be transferred to the company, including all the machinery, whims, ropes, stamps, tools, burning-house, dressing-floors, &c., for the sum of 800L; and it is proposed to raise a capital for working the mine of 5000L, in 1000 shares of 5L each, with a deposit of 1L 10s, per share.

TRENOUTH DELABOLE SLATE QUARRY.—The active impulse given of late

reach, with a deposit of IL 10s. per share.

TERNOUTH DELABOLE SLATE QUARRY.—The active impulse given of late to operations in mines and quarries, has led to the formation of several companies, amongst which the prospectus of one under the above title is now before us. The capital proposed to be raised is 12,000., divided into 1200 shares. The workings were commenced in 1842, and a sum of 60000. outlaid in erecting machinery and buildings, and the construction of leats, &c.; the quantity of slate and slabs sold during the past 12 months was about 500 tons. The sett is described as extending over several hundred acres of land, and held for a term of 35 years to run, renewable on payment of a fine of 2001, the annual rent is 1201, which includes about 16 acres of surface, it being provided that the maximum rent, including royalties, assuming the quarry worked to its fullest extent, shall not exceed 3001, per annum. The quality of the Delabole slate is well known, and the increasing demand affords every prospect of success, by the economical and judicious working of the quarry.

Wheal Zion.—This mine, which is situate in the parish of Calstock, and

Cess, by the economical and judicious working of the quarry.

WHEAL ZION.—This mine, which is situate in the parish of Calstock, and in the vicinity of several productive mines, was formerly worked under the in the vicinity of several productive mines, was formerly worked under the title of Wheal Morshead; but a sett having been obtained from the Duchy at 1-15th dues, it has been determined to resume its active working. To effect this, the mine has been divided into 256 shares, at 21. 10s. per share—the first deposit being 11. per share. The sett is 800 fms. in extent east and west, and 600 fms. north and south, and an adit driven 288 fms. to hill, with 'backs' of nearly 50 fms. Ten copper and silver-lead lodes have been discovered; and samples of the latter have yielded from 50 to 200 ounces to the ton of lead. It is proposed to extend the adit, so as to prove some of the lodes, which it will do at a depth of 40 to 50 fathoms—the principal lodes of the Tamar Consola and Beeralston Mines running through the sett.

Camborne Consols And Wheal Tryphina.—A correspondent informs us, that a valuable discovery of copper ore has recently been made in Camborne Consols Mines, on one of the Dolcoath lodes, which proved very productive to the adventurers in that mine; great expectations are, therefore, entertained respecting it. Several tons of rich ore are now being sent to the surface, which attract much attention. A very rich course of tin has also been discovered in Wheal Tryphena during the present week, from which it is calculated considerable profits will be realised, so that the prospects of these mines, and others in the neighbourhood, are more than assuly cheering.—West Briton.

It is reported in accounts from Charleroi (France), that two layers of coal of

It is reported in accounts from Charleroi (France), that two layers of coal of rich quality had been discovered, and the produce was expected to prove most abandant.

Sim.—I have lately read, with much interest, several articles in the Mining, and other Journals, on the subject of slavery, showing that great encouragement is given to slave dealers by English companies engaged in mining operations in Brazil. One of their statements refers, for proof of its accuracy, to the report of one of their companies, drawing therefrom deductions which appear to me unanawerable; but there is one point of view in which the subject has not been considered—vis.: is it better to invest English capital in foreign or in English mines? I presume it will not be denied that there is an immense field in our own country for mining in copper tin, lead, &c., but there is a charm about the word gold too dazzling to admit of calculating the expense of getting it; 2d. 178. bl. per oz. is seldom put in juxta-position with the cost of the ounce. Shareholders refer to the returns from their mines given in weight; they do not understand, as conclusive evidence, that the mines must be flourishing. I will not here show, that of all mining that for gold is, and always has been, the least renuncarity, and that no countries are so poor as those in which this metal is the staple of mining industry. I which to draw a comparison between gold and copper—between Brazil and England—boxween supplies the most direct encouragement of the Am, and always and always has been, the least renuncarity, and that no countries are so to the day—the latter the only Anglo-Brazilian company paying anything but hopes. The Devon Great Consols on the one side, and the St. John de Ray Mining Company on the other—the first being the most successful Cornish company of the day—the latter the only Anglo-Brazilian company paying anything but hopes. The Devon Great Consols have just declared a two-months' dividend of 77. 10s, per share, or 43. per annum; the St. John del Ray last half-yearly dividend was 17s. 6d. per share, or 43. per annum; the St. John del Ray last half-yearly dividend was 17s. 6d. per share, or 36. per annum, makes it littl

TRANSFER OF SHARES IN MINES—ARE STAMPS REQUISITE?

SIR,—A letter from your intelligent correspondent, "J. Y. W.," which appeared in your columns of last week under this head, induces me to address you, although I do not profess to be learned in the law, but simply possessing some common-sense knowledge and a slight practical experience on the studiest in question. I have not seen the circular referred to by your correspondent, which will be a subject in question. I have not seen the circular referred to by your correspondent, which in the uninitiated, and those exercising extreme caution, that mines are included in the category of joint-stock companies.

I must say for one, I am in no way nervous, nor am I troubled in the matter. I have not consulted my lawyer, nor have I applied to the Commissioners of the Woods and Forests, who, I believe, are interested on the part of the Government in mines. The custom known as the Cost-book System, has been observed and recognised, as your correspondent very properly observes, for centuries—the transfer of shares being registered by the purser in the cost-book of the mine, which is held to be sufficient, and which is not attended with any stamp. The remarks of "J. Y. W." are quite to the purpose, as to the exemption in the Joint-Stock Companies' Act of companies, or adventures, formed for working mines under the Cost-book Principle; but I must say, I should be glad if he would endeavour to illuminate those who are in the dark by lucidly explaining, or elucidating, what the cost-book system really is.

I have my notions, and which have been confirmed by the remarks which have appeared from time to time in your columns, and more particularly from a paper which I have perused in the Mining Almanack, p. 237, which, I con-

I have my notions, and which have been confirmed by the remarks which have appeared from time to time in your columns, and more particularly from a paper which I have perused in the Mining Almanack, p. 237, which, I consider, bears on the point. As to the objection of any purser to register a transfer without a stamp being attached thereto, I consider he is responsible for any consequences which may arise from his neglect or ignorance. I think, however, there should be a greater check on business transactions than the mere words "a valuable consideration," which opens the door to fraud and deception, which, I am sorry to say, so far as my experience goes, I find to have been too oft practised.—H. E.: Temple, May 18.

SPEARNE CONSOLS MINE.

SPEARNE CONSOLS MINE.

SIR,—In your paper of last week, I observe a letter from Captain John Carthew, reflecting rather severely on my conduct as purser of the Spearne Consols; I should have let it pass sub silentio, had you not specially called on me for some explanation. He says, that the balance of 3551 13s. 10d. would, if the "usual mode," for aught I know; butI should be sorry to adopt it myself. His "usual mode," for aught I know; butI should be sorry to adopt it myself. His says, "all the candles are charged up to the end of April, and coals for consumption to the end of June"—that "as an old miner this mode is new and novel, and that the dividend of 1l. per share is a mere farce, and most unjust"—that, in fact, "the adventurers should have received 3l. per share, and still have left upwards of 50l. In hand to the credit of the mine." Now, Sir, for my explanation of the facts of the case. This mine was first taken in hand by me in October, 1839, and from that hour to this not only have I never had a single shilling of the adventurers' money in my hands, but I have been sometimes 1200l., often 50dl, and at this moment an actually upwards of 450l. in cash advances to the concern, without ever having charged a single shilling for interest or commission, contenting myself with a salary of four guineas per month, to include all horse hire, gig hire, &c. Our last account was on the 30th of April, for the months of January and February, and not one penny of any description is charged for supplies aince the 14th of February, which is the date of the latest delivery, except 24l for 48 tons of coal, which I paid cash for in April, and which may last on till some part of June; but by buying it from on shipboard for cash, the adventurers have the advantage of increased cheapness; whilst half a ton of gunpowder, delivered on the 27th of Feb., but not begun to be consumed in that month, was spotponed for clark, the adventurers were in debt to the purser?" Many of my occadentures repeatedly begged me to postpone all di

the largest original advanturer in the concern, I have no reason to be dis-with our prospects. As all the load file advanturers in the Spearos C. Mine have expressed themselves throughout perfectly satisfied, I do not a Captain Cartheo should seek to drag me before the public to repel such g-less complaints.—RICHARD PEARCE: Penzance, May 16.

less complaints.—RICHARD PEAROE: Pearonce, May 16.

It is only due to Mr. Pearce to make the amende honorable, so far as we are ourselves concerned. The letter of Capt. Carthew, inserted in our last week? Journal, was delivered personally by that gentleman, who gave us to understand that he held a large interest in the mine in question, and with the representations made by him, and conveyed in his letter, we meat certainly do think there was a "somethink to complain of." We gave the purser credit for having erred upon the safe side—if or r he did—and which we had a right to assume from the statements put before us. We most readily give insertion it Mr. Pearce's letter, and regret if that any observation we may have made in the absence of the explanation afforded, should have prejudiced that gentleman. The value and importance of the Alining Journal, in thus affording opportunity for charges being made, and replies or explanations given, cannot, we think, be better exemplified than in the present instance.

THE BRITISH COPPER SMELTING COMPANY.

Sirk,—I left England in August last, so fully impressed how desirable would be the establishment of the British Copper Smelting Association (Mining Journal, Aug. 12, 1848), that I have promoted amongst my Chillan friends a decided inclination to join in the undertaking. On my return, I have made many inquiries on the subject without succeeding in finding any traces of it. If you can give your Chillan readers any information relative to it, I know it will be much appreciated; and I shall also feel greatly obliged by your acquainting me where I can apply for particulars.—Anglo-Chillans: London, May 17.

[The information can be obtained at the offices, 2, Moorgate-street.]

The information can be obtained at the offices, 2, Moorgate-street.]

Contracts for Coal.—The Board of Ordnance has given notice that on or before Wednesday, the 6th of June, they will be ready to contract with parties for supplying the barracks and ordnance stations in Great Britain and the Channel Islands with coals, from 1st July next to 30th June, 1850, in such quantities as may from time to time be required. Tenders to be made for the several barracks and stations joined together in the particulars of contract.

The London, Liverepool., And Dublin Coal. Coassumers. Company.—We have just received a prospectus of a new coal company under the above title, possessing in the details of its business a peculiar and novel feature, which may, perhaps, be carried out in this tranch of merchandise—viz.: supplying shareholders with the best coals at cost price direct from the mines, without any intermediate agency of merchant or dealer, and securing a certain and prompt supply of a good article at every period of the year at a fixed and undeviating price, in any quantity. The coals supplied will be from mines purchased near Holywell, in Flintshire, and are stated to be of excellent quality. The shares are to be 2l. each, for which every shareholder is to have one ton of coals per annum at cost price, and his share of the profits to the general public, who are not shareholders. It is assumed that 25,000 tons at cost price will be required; the savings in price alone to the shareholders is estimated at 6000l, besides the general profit, as above stated. The prices are to be, in London, 14a per ton; Dublin, 10a; Liverpool, 7s.; at the pit's mouth, 4s. 6d.

Institution of Gas Engineers, We understand that an Institution of Gas Engineers is about to be established, for the purpose of collecting and promulgating all data connected with gas manufacture, distribution, &c., producing it in the highest perfection, and conveying it to the greatest distance at the lowest possible charges. Another great object is the propectors of

totally at variance with each other. The projectors of this institution are Mr. Croll, the meter manufacturer, and Professor Wilson, and we have no doubt they will be warmly responded to.

GRILY GARR COLLIERY.—We stated in our last that a ventilator, on an entirely new principle, had been erected at this colliery, the invention of Mr. Brunton, and that some experiments had been made, which were highly satisfactory. It consists of a very simple mechanical arrangement, without valves or separate moving parts, and all the friction is on the pivot moving in a socket containing oil. It is applied to the top of the upcast pit by a short tunnel, or air-course, and is driven by a steam-engine. In its rotatory motion it subjects the air to a high degree of centrifugal force, whereby any degree of rarefaction necessary to the complete ventilation of a colliery may be attained, with the greatest economy of power. In a part of the airway where the area was only 9½ superficial feet, the air was propelled with a velocity of 22 feet per second, and in its way to the upcast pit. though an opening of 4 feet area, it obtained a velocity of 76 feet per second. On the following day a very important experiment, was made by stopping the influx of air from the downcast shaft, and in less than five minutes the whole of the colliery was thus artificially subjected to a rarefaction equal to, and in its effect upon the gas in the coal corresponding with, a sudden fall of the barometrical column, of about two-tenths of an inch of mercury, and this may be greatly increased.

The Ison Taane.—The expectations indulged in at the last quarterly meetings, that the masters would have been enabled to maintain the late advance of 20s, per ton, have not been realised; and we regret to learn that the alsakness of orders, consequent on the unsertied state of the continuent, and the low rate at which iron is offered in the Scotch and Welsh markets, have operated to depress still further the Sonth Stafford-shire trade. Several furnaces throughout the d

Carn Brea .- J. Wedlock was killed by a fall of stone

scoll Mine, Luxuilion.—S. Williams, a minor, was standing at the boiler furnace changing his cioties, when the boiler suddenly exploded, and he was so dreadfully d, that he died the same evening; another man was much hurt.

Frightful Explosion.—On Monday morning, a dreadful explosion of fire-dain a pit belonging to James Foster, Eq., at Shutt-end, Brierley-hill, by whiwere instantaneously killed, and 10 or 12 others fearfully injured.—Ten Town Aberdare.—On Thursday last an awful explosion took place at the Werfa Colliery.
Twelve colliers were dreadfully burnt, since which three have died, and two are not expected to survive; a horse was also killed. It occurred by a man with a Davy lamp going to a foul heading, and who was followed, unfortunately, by a boy with a naked candle,

West Bromwich.-J. Hodgetts was killed in one of Mr. Davies's pits by a fall of coal.

OOAL MARKET, LONDON.

MONDAY.—Ships at market, 171; sold, 58.

WEDNESDAY.—Carr's Hartley 13 6—East Adair's Ma'n 12—Hostings' Hartley 13—Ravensworth's West Hartley 15 6—East Adair's Ma'n 12—Hostings' Hartley 13—Gosforth 13 6—Ravensworth's West Hartley 19 6—Tanfield Moor 13—Wall's End Brown's 13—Gosforth 13 6—Rassell's Hetton 16—Stewart's 17—Kellon 15 6—Whitworth 12 6—Tees 16 6—Llangennech 29 6—Whitworth Coke 21.—Ships at market, 128; sold, 48.

FRIDAY.—Adair's Main 12—Hasting's Hartley 13 6—Holywell Main 13 6—Ord's Redheugh 12—Tanfield Moor 13—Townley 13—Wall's End Bewicke and Co. 13 6—Gosforth 13 6—Gloson 13 6—Reflox 13 6—Step 13 6—Gloson 13 6—Reflox 13 6—South Hartley 16 6—Lambton 16—Morrison 13 6—Pemberton 18 6—Reflox 15 9—South Hartley 10 13—Derwantwater Hartley 13 6—Eligin 13 6—Gostaf Hartley 16 6—Whitworth Coke 21.—Ships, 89; sold, 50.

NEW PATENTS.

C. Smith, wife of J. Smith, Bedtord, improvements in certain articles of wearing apparel.

S. Alipott, Birmingham, gun-maker, for a certain improved method of making or manufacturing a certain part, or parts of looms used in weaving.

P. Farker, geng, Lime-strees, London, for improvements in the construction of planofortes. (Being a communication.)

J. Thom, Artwicke, cenar Manchesier, calico printer, for improvements in cleanating, societing, or ble technique districts, and conting, or ble technique districts, and the sagging fabries and yarns when printed.

M. Foole, gent, London, for improvements in apparatus for drawing fluids from the human or animal body. (Being a communication).

L. A. De Chatanvillard, gent, of Rue St. Lazare, France, for improvements in fire-arms, cartridges, builett, bayonets, and ordinance. (Being a communication.)

B. Besseune, Baxter-house, Old St. Pancras road, and J. S. C. Heywood, Islington, Widdlesse, for improvements in capressing and treating oils, and the manufacture of varnishes, pigments, and paints.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED

DESIGNS FOR ARTICLES OF UTILITY REUISTBURD.

S. A. Kiach, Maddox-street, auto-crumatic gown.

R. Waygood, Newington-causeway, corn and flour grinding and dressing mill;

J. D. Weymouth, Kailsea, near Bristol, terrestrial globe.

D. Harcourt, Bristol-street Birmingham, egg biender.

J. Bourne, Savago-gardeas, London, steamer.

W. Sishop, Beston, Lincolashire, metallic isos-end protector.

H. Knight, Birmingham, engineer, steam-engine indicator.

J. James, John-street, Oxford-street, railway travelling trunk.

T. Buckland, Islington, a cigarrilla.

J. Roberts, Easteleap, London, grape tile.—Mechanic's Mayasine.

Greempieh Muspital Sale of Lend Gre.

THE COMMISSIONERS OF GREENWICH HOSPITAL

AND ADDRESS OF GREENWICH HOSPITAL

WILL RECEIVE TENDERS for the PURCHASE of THERE HUNDRED RINGS
of Lead Orie, at the Low Byer INN. ALSTON, up to One o'clock in the afternoon

Samples of the ores will be forwarded to any parties withing to purchase, who may not
appoint agents to examine them, on application to Mr. Pauli, Alston, Cumberland; and
conditions of all may be had on application to Mr. Grey, at the Greenwich Hospital Office, Dilaton, Newcasile-on-Tyne.

TO CAPITALISTS AND OTHERS.—TO BE DISPOSED OF, AN INTEREST in a valuable TIN and COPPER SETT. Any person with Acceptable of 1600 to 25000 will find this an advantageous opportunity for investment. Mose but principals treated with.—For particulars, and to treat, apply by letter, in the linest acceptable of the principals treated with.—For particulars, and to treat, apply by letter, in the linest acceptable of the principals treated with.—For particulars, and to treat, apply by letter, in the

Current Prices of Stocks, Shares, & Metals.

Bink Stock, 7 per Cent., 194 5 3
3 per Cent. Reduced Ann., 90 i
5 per Cent. Consols Ann., 90 i
5 per Cent. Ann., 90 i
6 per Cent. Ann., 90 i
7 per Cent. Ann., 90 i
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Chillian, New, 5 per Cent., 76 i
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8 per Cent. Consols for Acc. 91 i
8 per Cent. 31 i
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8 per Cent. 33 i
8 per Cent. 35 per Cent. 36 i
8 per Cent. 36 per Cent. 36 i
8 per Cent. 36 per Cent. 36 per Cent. 36 per Cent. 36 per Cent. 37 per Cent. 37 per Cent. 37 per Cent. 37 per Cent. 38 per Cent. 39 per Cent. 39 per Cent. 39 per Cent. 39 per Cent. 30 per Cen

MINES.—In the mining share market during the part week an average amount of business has been done. Shares in our leading and dividend paying mines are much inquired for, in many of which transactions have taken place, and

In foreign mines the following shares have been done during the week-viz.: St. John del Rey, United Mexican, Copiapo, Imperial Brazilian, Bolanos, and Australian. St. John del Reys have experienced a decline. North charged upwards of 80 tons of copper regulas on Monday last; and, from some jer. The Cheapside arrived in the London Docks on Thursday with 110 tons; we have seen, consider the average to be about 50 per cent. for copand the Isabella Marcus is daily expected with 118 tons more from Sydney. As at lefurnaces were nearly completed when the last letters were received. Companies have received dispatches by the Penguin packet, which arrived at The St. John del Rey, Imperi completed when the last letters were received. Companies have received dispatches by the Penguin packet, which arrived at The St. John del Rey letters are to the 9th of March, furnishing the returns of the month of February, by which it appears a profit of 3232.7 s. 4d. has of stone continues favourable, but the returns for March are likely to be relieved, in consequence of some breakages, and an unusual violent storm, which tons. The manager supplies an explanation to the directors, in answer to is clear and satisfactory, to which we refer our readers in another column. Some inquiries relative to the increased expenditure at the mines. The reply above the manager supplies an explanation to the directors, in answer to is clear and satisfactory, to which we refer our readers in another column per cent. has been realised.

10 cs. 10 dwts. 3grs. of gold dust, value about 45001; and the report of gold nanal ditto, 17 lhs. 9cs. 12 dwts. 21 lbs. 10 ozs. 2 dwts. Total from the two Caces and Bandeira Venns are fikely to take place much shallower than before the next advices with much micres from characterial provements have taken place, and as a junction of the expected, a considerable discovery is fully anticipated; we therefore look to fact, to be 5 mks. 5 dwts. 5 drs. 1 dwts. 3 grs. of pold dust, value about 45001; and the report of gold of so

We have just seen the result of an assay of a sample of the roasted copper ore lately arrived by the Agricola from Sydney for the North British Australasian Company, being the produce of their mines at Kaw-aw, New Zealand. It ontains only 185 per cent. of one copper, and, consequently, worth at present From the annual statement of the copper.

From the annual statement of the company formed two years back for works the copper mines of Michigan, the production would appear to be almost as successful as in South Australia. In the two years it has amounted to \$224,286, and dividends have been returned to the shareholders equal to six-tenths of the whole capital paid in. Michigan is a repudiating State, and it is to be hoped creditors: From the annual statement of the coming the copper mines of Mark

creditors.

At the Auction Mart, yesterday, a 100t, share in the East London Water-Arthractre I non-Universe of the St. per cent, was sold for 179t.

And the Auction Mart, yesterday, a 100t, share in the East London Water-Works Company, paying a dividend of 8t, per cent, was sold for 179t.

And the Arthractre I non-Universe Commander of the St. per cent, was sold for 179t.

that one of the small furnaces at Gwendraeth Iron-Works, in the county of the step of the small furnaces at Gwendraeth Iron-Works, in the country by anthractic time that 100 tons one week was aver reached in this country by anthractic nearly approached it. When it is borne in mind that at the average produce make of the one now alluded to was only 80 tons, it may readily be granted much credit is due to the management under the present proprietor—Cambrian.

PRICES OF MINING SHARES.

ITAL	- 444	uss or M	INING TO AT	- started management
BINGS	Shares, Commission MIN	re distriction of	INING BRARBS.	THE PARTY OF PARTY
BINGS	Shares. Company. 1000 Abergwessin	Paid Date	Shares. Company	STATE BY BUT BY
seed Promiti	1000 Abergweisin	Paid, Price.	Shares. Company	continued.
nay not	1000 Antimonda	84. 74	9000 South Tanuar	Paid. Pric
d; and	1024 Ashburton United Min 1624 Halleswidden	M 5 81	1100 South Caradon	A and a
GP-1/IDP/FF-EH	1034 Balleswidden	04. 13	Shares. Company. 9300 South Tamar 128 South Caradon 1100 South Dolcoath 256 Sth. Friendsh. Wh.A.	4 5
	128 Balnoon Cousois	424 50	256 Stir. Friendsh. Wh.A.	nn 20 4
SED	1000 Banwen Iron Co	6 . 6	256 South Tolons	· 5 15
with	1000 Bawdon	54. 14 9	256 South Treisway	14 . 55 6
ment.	4000 Bodford	1 11	198 South Wales Mining	2 3
n the	128 Bainoon Consols 0000 Bainwen fron Co 1000 Bairistown 1000 Bairistown 4000 Bosford 244 Isiren Tor Tin Mine 900 Basonavon	-831 4 4	124 Source Wheat Busset	204 . 300
981897	1900 Bissenavon 1900 Bissenavon 1900 Bissenavon 190 Botssined Consols 190 Botssinek	50 5 54	256 Sth. Friendsh. Wh. A. 256 South Molton 256 South Tolgus 256 South Tressway 2600 South Wales Mining 128 South Wheal Basset 124 South Wheal Basset 124 South Wh. Frances 256 South Wh. Joshuh 1000 South Wh. Joshuh 1000 South Wh. Alaria	-160 260
1000	1000 Blisland Consols	1 6	256 South Wh. Josiah 1000 South Wh. Maria. 10000 South Wh. Maria. 280 St. Goldhern & Western, iri 280 Spearne. Moor 296 St. Austelf Consols. 34 St. Ives Consols. 128 St. Michael Penkivel. 959 St. Minyer Consols.	3
15.	100 Motadines 100 Forest 100 Freed Iron, Kew regis 100 Bratish fron, Kew regis 128 Sadnick Cousois 100 Camborne Consols 100 Camborne Consols 100 Camborne Consols 100 Caradon Mines 100 Caradon United 100 Caradon Win Hooper 100 Cara Joseph	182 25	10000 Southern& Western Isl	24 14
10	000 Braish from Name	5 3	250 Spearne Moor	30
cit.	- Ditto ditto, scrip.	12 8	94 St. Austell Consols	9 40
	28 Budnick Comons	10 10	128 St. Michael Bank	70 90
1 10	oo Callington	20 - 15 16	999 St. Minwer Consols 1000 Stray Park 9900 Tamar Consols 1024 Tavy Consols 1024 Tavy Consols 1020 Timeroft 1000 Tim Vale 58 Tokenbury 256 Trugordam	5 104
200	00 Cameron's Cousois	6 6	9600 Stray Park	43 . 6
2	oo Caradon Coul	7 12	1024 Tanuar Consols	3 174
1 2	56 Caradon Mines	94 14	6000 Tincroft	6 14 0
2	6 Curadon United	4 10	1000 Tin Vale	J 14 114
100	6 Caradon Wa. Hooper. 2	1 45	58 Tokenbury	24. 25
300	O Change	3 100	236 Tregordan	10 10
int in	O Carn Brea O Carthew Consols			
108 50	Comblawn	3	000 Trenance	6 24 95
d, 12	Condurrow 20 Condurrow 20 Condurrow 20 Cook's Kitchen	44	96 Tresavenn	3
al 2560	Cook's Kits	90 95	20 Tremetlan	0 120
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1000	Copper Betton	Ber 44 1	bs Treveau Barrier 13	14 80
1 128	Craddock Moor 23	64 2	00 United Mines 30 56 Wellington Mines	200
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7100	Derwent	20	West Seton 40 West of Scotland Iron Co	. 15 8
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186 1	Devon Great Consols. 1 Unitrode Dofconth 30 Prake Walls 51 Ourimm County Cont. 51	. 0 51	6 West United Hills 5 2 West Wheal Frances	16 a
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Aibut 1	Parisan County Coal. 45	3 4 3725	West Wheat James	8 da
512 E	ast Alemann. 10	124 256	West United Hills West Wheal Frances West Wh. Friendship West Wheal Joyns West Wheal Joyns West Wheal Joyns West Wheal Treasury	i 14 du
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112 E	ast Caradon	34 5200	Wicking Cines 42.	4 54 8
2048 E	Darlian County Cont. 45 yringwin 10 ast Aivenney 54 ast Birch Tor. 3 ast Caradon 47 ast Crowndale 64 ast Coundale 15	47 1 107	Wicklow Copper 5 Wicklow Copper 5 Wheal Adams 79 Wheal Agar 79 Wheal Antert 10 Wheal Anderton 51	. 74 hel
128 Kg	st Combe Silver-Lead 64	64 1000	Wheal Agar 79 .	· du was
9000 Ea	ist Pool		Wilcal Albert 10	b pres
		4 4 128	Wheat Anderton 254 Wheat Anderton 254	294 the
1024 Ea	st Wheal Crofty 125	65 70 512		SUA TOO
- Eu	st Wheat Rose 50 st Wheat Rose 50 st of Scotland Iron Co. 5 t Wheat Seton	600 1024	Wheat Ash Maria 64	8 to o
123 Eas	t Wheal Seton 14	13 120 1	Wheal Bal 44	8 sales
1280 Esg	air Lii 14 .	10 1 950 1	Wheal Ash Wheal Bal Wheat Benny Wheat Bencowe Wheat Biencowe Wheat Bucketts	15 Bar-
248 EX	noor Wh. Eliza	3 256 W	Vical Biencowe 21 Vical Backetts 20	10 while
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256 Gone	mena	11 388 W	heat Fortescue 64	- Nos.;
128 Goon	Vrea	6 128 W	heal Harriet 27	
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56 Herest	ston Down Con., 14., 14	18 210 Wh	eal Penhale	12 specula
00 Hiber	ilan 27 15	17 120 Wh	eal Reeth	arrive,
39 Hobb's	4001 124 1	198 101	eal Rose 60	Summe
10 Hoimb	11111	180 Whe	al Seton	in Marc
Hoine I	ush	494 Whe	214 27 21 Seton 214 27 22 Sisters 354 23 Sophia 44 24 Spearne 44	nor do v
7 Kirken	t and Bedford. 1 31 4	128 Whe	al Sophia 44 al Spearne 10 76 al St. Ann 30 36 di Trescoll 7 10 frelawny 75 10	- MA
Lumber	008 Wit. Maria 13 2	128 Whe	al St. Ann 30 76	from the
Lauarti	Consols 90 40	960 11/1	il Trescoll 7	article, I
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		250 Wheat	Williams GO	Machynlle
Metha	A TOTAL STREET, STREET	5000 ALL F	OREIGN MINES 288	Shallee
Mining C	o. of Ireland 7 48 A	15000 Asten	Olteign Mines 200 and Mining Company 141 24 an Mining Co 15 34 in Mexican Co 100 64 in Mexican Co 100	ditto
		20000 Ameter	11	Cwm Erfir
North Day	. 34 44	10000 Anglo-	Mexican Co100	Cairnsmor
North Por	kear 45 . 640	12374 Ditte S	ubscription 25	1.
COLUMN TO SECONDO	1 01 100	2000 Barossa	Range 14	1
North Wh	eal Basset 10 10 12	2000 Ditto Se		Herodsfoot.
Withern (Coul Cla 40 10 12 1	10000 Brazilia	1 Izmerial 11 21 21	Fast was
ennant &	Craigwen 552 800	12000 Cobre C	rip 150 2 2 2 3 1 1 2 2 2 2 2 3 1 2 2 2 3 2 3 3 4 4 2 3 2 3 2 4 2 4 4 4 4	East Wheal ditto
enzance C	Craigwen. 552 800 onsols 2	20000 Copiapo	Mining Co 14 244	ditto

RAILWAY TRAFFIC RETURNS.

Names of Railways.	Lgth.	LAPPIC	The Person Name and Post Of the Party of the		S.		Drive for
	Rway.	Present a		rice	Div.	Traffic	Returns
Abordeen	33	1,000,547	-		1848	1849	1 1848
d Birkenhead, Lancashire,& Chesh.	374	_		9	-	£ 570	-
Bristol and Frett West Yorksh.	19	1,088,804	9		P. c.	519	£403
O Caledonia	754	786,384 2,660,490	1	74	P. c. *	940	2152
I Liberton and Tr.	141	4,865,135	001	200	- 1	417	-
d Dublin and Drogheda	84	3,014,602	264		-	4961	3851
Dunden Dougl Botowil	354	774.875	28	1	4	-	9091
Least Anglian or "out deen June.	474	395,915	-			880	907
East Language (Sin to Ely)	674	544,554 1,167,104	24		8	939	1189
Eastern County	50	2,628,519	3 :		-	621	803
Eastern Union	0092	2,027,069	164		5	2948	481
Edinburgh and Glasgow	904	1,712,703	8 8	9 4		4416	1118
Edinburgh and Northern	574	2,644,378	42 1	1 6		1236	1107
Glasgow Dalet , and Ayr		2,232,115	124	4	- 1 1	3983	3411
Gr. Northern a discince	23	2,286,353	57	1 4	1 4	170	1274
Gt. Southern & Micolnshire 1	10	848,328 1,255,171	13#	1 4		712 987	2015
Great Western, Ireland 1: Kendal and Windows	31 9	,844,897	104	54		969	140
Kendal and Windermere 3	VO2 1	,608,815	31 3 791 9			970	
Lancaster and Carlisle	0.4	174,600	5	17	178		674 340
Lancashire and Yorkshire 20	64 0	476.102	50	1		34	139
London and Distill Western 43		,218,450	25	6		12 1	790
London Refels		077,942	129 81		401	30	80
London and South Coast 16	29 6	299,675 382,281	42	1-1	9 7	100	
Londonderry and Enniskillen 216	38 7	510,689	374	24	850	0 0	
Manchester, Sheffield, & Lincolnsh. 91		171,026	344	6	944	10	
Midland Company	# 6,0	48,679	37	-	13	6 910	
Midland Great Western (Irish) 50	14,0	42,340	693	6	-	980	
North Hatelat	1 6	25,332	244	4*	2060	7 9053	9 8
cottish Contact 99	20	00,000	-	6	116		
brewshame and an access 451	1 30	63,450 64,228	134	5	2890		81
outh Devon	96	9,618	244	-	1233	-	A
outh-Eastern		9,232	17	5	1869		
aff Vale	8,11		144	= 1	1912		ce
est Corpwell 36	87	9,110	- 1	6#	7940	1550	
est Cornwall	68	1,684	452 4	08	2078	1446	
rk. Newgood	1 100	-	-	_	787	887	1 "
rk and Manth of Berwick 969		0,879	94	3	289	1-	100
Interest.—Total for last week, £214,18 AUSTRALIAN PRODUCE—The	4.983	619	104	8	11851	172	Ats
Total for last work entire	1 -10.00	1010 1 3	1 1 4			111036	4 43.6

Australian Produce.—The vessal, Success, arrived in the docks from Adelaide, Australia, has brought 2539 bags of wheat, of the production of that distant colony. The same vessel brought 10,136 bags of copper ore, 127 casks of tallow, and a general cargo of Australian produce.

Lie Molr's Electric Light.—On Thursday evening, M. Le Molt gave an xhibition of his light at the Surrey Zoological Gardena. The general effect ras fully equal to the former display at the Duke of York's Bolumn.

LATEST CURRENT PRICES OF METALS.

Bar, soli, & square, London, 26 50 oc.		OON, MAY 18, 1849.
eets, sheathing, & bolts, p. to. 0 0 10 English sheetper ton 88 10 0 Outcome	Bar, bolt, & Rusare, London. 45 5 0 Nail rods Nail rods Hoops 75 5 0 Hoops 75 10 Hoops 75 1	Second S

REMARKS.—Our metal market remains in the same depressed and unsatisfactory state it has done for some time past, and the want of orders for iron is now being severely full, the property of the makers in Wales and Staffordshire. Welsh bars must be written Sa. lower: and the state of the market have been done as the terms of the market have been done as the terms. It is a staffordshire, several of the makers have been a general reduction of 20s, per ton un the fixed prices, and it is therefore deemed certain that a grain given way, and business to some extent has been done at 42s 6d, per ton that again given way, and business to some extent has been done at 42s 6d, per ton during the early part of the week, per Eswopa, give a very The market closes dull orduring the early part of the week, per Eswopa, give a very unfavourable report of the stance we may attribute, to some extent, the fall in our market within the last few days. BIRMINGHAM, MAY 18.—At a meeting of the ironmasters of South Staffordshire, wages of workmen in proportion. Although all descriptions of stock are low, it is add the decisions of quarterly meetings.

LIVERPOOL, MAY 18.—Our metal market continues depressed, buyers being afraid to operate in the face of the teaching of the ironmasters of both to be placed upon

the decisions of quarterly meetings.

LIVERPOOL, Max 18.—Our metal market continues depressed, buyers being afraid to operate in the face of the troubled condition of the continent, and those obliged to effect though not worse than there was reason to look for, still confirm the exlets this week, this tothers are disposed to accept much lower. Such professions are disposed to accept much lower, south professions are disposed to accept much lower. So the pre-trouble the such professions are disposed to accept much lower. So the pre-trouble the such professions are disposed to accept much lower. So the pre-trouble the such professions are disposed to accept much lower. So the pre-trouble the such pre-trouble the such professions are disposed to accept much lower. So the pre-trouble the such pre-tro

per is lower, with the supply and demand about equal. Tin-plates nominally 32s. for charcoal, but with sellers considerably lower. No further alteration in block tin.

GLASGOW, Max 17.—The demand for all kinds of iron has lately been falling off. and prices have given way in proportion. Pig-iron is now dull of sale the sell sell sell of the same and prices have given way in proportion. Pig-iron is now dull of sale at 42s. 6d., mixed ordinary makes. Select brands, 6l. 15s. to 7l., usual discount of Jee quoted easy at 6t. to 6l. 10s. ordinary makes sell by no means deep in order and should the present stagnation continue. The makes are by no means deep in order and should the present stagnation continue Staffordshore will likely deep business, the after of Wales and a very unfavourable tenor for this action of the produces of Wales and a very unfavourable tenor for this action. Private letters, dated the 2d inst., represent a seven seculators came into the market, and bought some 2000 tons of pig-iron, here and to speculators came into the market, and bought some 2000 tons of pig-iron, here and to speculators, and sellengarnock brands; but now there are large buyers at those prices in March 30d at 5524, is mouths, to arrive, are now offered at 545, without finding buyers, in March 30d at 5524, is mouths, to arrive, are now offered at 545, without finding buyers, or with the value of the low prices ruling, and the almost unsalesheness of the low prices ruling, and the almost unsalesheness of the market, realising 42s. 6d. and 42s. for mixed Nos.—cash.

LEAD ORES. Ticketings at the Dee Bank Hotel, Hotywell, May 15.

Machynlloth	tings at the Dee Bank Tons.	Price per T		no de
ditto	34	. 13 1 0	Malkon T	
			I D The Acates.	& Co.
Cairnsmore	10	7 12 6	Mostle	
			ditto.	
Herodsfoot	100	d. May 14.	45.	
THE REAL PROSE	wall at the	Mina	Amount, £1137	10 0
ditto	91 56	£12 13 6		10 0
***********	37	12 11 6	T. Somers,	
Sampled Man 2	COPPER C		Penpoll Co. & Mici	hell.

COPPER ORES. impled May 2, and Sold at the Royal Hotel, Truro, May 17, 1849.

and Sold at the	- stand.
Wh. Josish. \$\frac{1}{3}\$ \(\text{25} \) 18 \(6 \) \(\text{ditto} \) 89 \\ \text{5 16 0} \\ 0 \\ \text{ditto} \) 89 \\ \text{5 16 0} \\ 0 \\ \text{ditto} \) 81 \\ \text{6 5 6} \\ \text{6 5 6} \\ \text{ditto} \] 80 \\ \text{7 5 6 6} \\ \text{ditto} \] 80 \\ \text{7 5 0 6 6} \\ \text{ditto} \] 108 \\ \text{5 0 6 6} \\ \text{ditto} \] 104 \\ \text{5 3 6 6} \\ \text{ditto} \] 104 \\ \text{5 3 6 6} \\ \text{ditto} \] 104 \\ \text{6 16 0 0} \\ \text{ditto} \] 94 \\ \text{6 0 0 0} \\ \text{ditto} \] 94 \\ \text{6 0 0 0} \\ \text{ditto} \] 94 \\ \text{6 5 8 6} \\ \text{ditto} \] 94 \\ \text{5 8 6 6} \\ \text{ditto} \] 94 \\ \text{5 8 6 6} \\ \text{ditto} \] 94 \\ \text{5 8 6 6} \\ \text{ditto} \] 94 \\ \text{5 8 6 6} \\ \text{ditto} \] 94 \\ \text{5 8 6 6} \\ \text{ditto} \] 94 \\ 8 5 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Noval Hotel, Truro, May 17, 1849. Noval Hotel, No
Devon Gt. Cons. TOTAL PROI	Wh. Jewel 14 3 17 6

Devon Gt. Cons. Wh. Josiah... Wh. Josiah... Wh. Maria ... Wh. Friendship ... 232 ... £ 1392 3 0 Wh. Friendship ... 228 ... 1702 10 0 Wh. Ranny... Wh. Anna Maria Wh. Anna Maria West Caradon ... 346 ... 2855 0 6 Wh. Jewel ... 18 ... 28 9 0

COMPANIES BY WHOM THE ORES WERE PURCHASED. Tons. Amount. Virian and Sons. 146 ... 4694 3 6 576 ... 3564 6 5

Viet distance and an	Tone	CHASED.				
Virian and Sons. Freeman and Co. P. Grenfell and Sons Sims, Willyams, and Co. Williams, Foster, and Co. Schneider and Co.	576 201 450	An £ 694 3564 1128 2474	3 6	0		
Total tons Poper ores for sale on Thursday next, at the Po-	61	45.11	5	6		
Consols Mines 793 11 Walsday Dext, at the Day				0		

Copper ores for sale on Thursday next, at the Royal Hotel, Truro.—Mines and Parcels.—Consols Mines 723—United Mines 661—Tresavean 469—Treviskey—Par Consols 313—South Caradon 948—Trethellan 246—Wheal Comfort 192—Perran St. George and Wheal Mary Consols 123—South Tolgas 121—Tretiskey—Perran St. George Albyn 53—Richards's ore 31—Wheal Cliffort 16.—Tola, 3967 tons.

Cupper ores for sale on Thursday even and the Mary Consols 85—Wheal Frudence 65—Grambler and St. Copper ores for sale on Thursday even, at Tyack's Hofel, Camborne.—Mines and Parcels.—North Pool 500—East Wheal Crofty 475—Camborne Vean 450—Wheal Seton 420 Mary 209—East Pool 204—Dolcoath 155—South Wheal Frances 150—Creeg Braws 88—Wheal Tryphena 6.—Total quantity of ore to be sold, 3948 tons.

At SWANSEA, for sale May 24.—Cobre 108, ditto 83, ditto 66, ditto 64, ditto 63, ditto 59, ditto 22, ditto 100, ditto 96, ditto 74.—Barra Burra 76, ditto 74, ditto 72, ditto 70, ditto 69, ditto 67, ditto 64, ditto 67, ditto 68, ditto 68,

Foreign gold, in bars per oz. £3 17 9 New dollars per oz. £0 4 104

"Portugal pieces.... 0 0 0 Silver in bars (standard) 0 4 114

THAMES TUNNEL COMPANY
The number of passengers who passed through the Tunnel in the week ending May 12 was—No. of passengers, 14,855. Amount of sumey, 461 17s. 11d.

NOTICES TO CORRESPONDENTS.

⁴ D. G. R. "(Tipkon).—We have not yet published a y description of the patent variable expansion apparatus of Messra, Petrie and Co., of Rechdale. The advertised testime risks appeared in our Journal of the 30th December last.

nais appeared in our Journal of the 30th December last.

"L."—We do not know the address of Dominique Albert, LL.D.

Mr. Evan Hopkins, C.E.—Having received several communications in reference to papers this gentleman has recently written in our Journal, and which require his attention previous to publication, we have to state, that Mr. Hopkins is a present inspecting some mining property in Prussia, and may possibly be so engaged for some weeks to come; on his return to London, however, all arrears will be specify cleared off, and new articles prepared. This notice will also explain any apparent inattention to private communications.

communications.

"A Constant Reader,"—We have received a copy of a letter which appeared in the Morning Post, on the subject of the slave population of the St. John del Rey Mining Company; and although we have as great an aversion to the atrocities which have been perpetrated in the presocution of the slave trade as our correspondent, we believe his views of the subject are not founded on correct data. With respect to the medical and general care of the negroes in the employ of the Angle-Brazillan Mining Companies, we refer him to a summary of the annual report of the superintendent of the St. John del Rey Mining Companies, we may be sufficiently as it is a close, more particularly as it is, in some hight wish to elleit facts—bring it to a close, more particularly as it is, in some instances, becoming annecessarily personal. We have received a communication this week from Mr. Curr, in which, after going through statements before repeated, he comes to the conclusion that Mr. Hanssen has not advanced an argument or item to disturb one sentence in his first paper on the subject, as he estimated the power according to the volume and temperature of the gas

as not advanced an argument or from to disturb one sentence in his first paper on block, as he estimated the power according to the volume and temperature of the olved; and Mr. Curr did the same, but substituting the true law for the one i anseen had assumed, in defiance of all principle, theoretic or practical. We he received another communication from Count de Werdinsky, which, from the can ove stated, and as certainly presenting nothing whatever new, we must beg to decli

H. C." (Oviedo).—Super-sulphuret of lead is earthy, of a greyish blue colour, and ac inflammable as to take fire, and burn on being held in the flame of a candle. It occurs

in the Dufton Lead Mines.

I. G. (Witham).—Platina unites easily with bismuth. With animony its fusion is facilitated: but its weight and ductility are lessaned. By zinc it is rendered more fusible—the alloy being very hard. It unites easily with tin—the alloy being very fusible; and, unless the the is in large proportion, very brittle. It unites very well with lead. One ounce of platina being capeled with 20 onness of lead, the platina gains the power of being forged and soldered completely. It will not unite with forged iron; but, melted with crude fron, the alloy is so hard that the file will not touch it. It is ductile in the cold, but breaks abort when hot. With copper the alloy is ductile. When the copper is in the proportion of three or four to one, it takes a fine polish, and does not tarnish for years. With aliver the alloy is hard, without ductility, and tarnishes; but with gold it can only be alloyed by the most violent heat—the colour of the gold being greatly altered, and the alloy possessing considerable ductility. *A Speculator *(Bath).—The offices of the Sligo and Shannon Railway are at Winchester House, Old Broad-street.

House, Old Broad-street.

An Enquirer" (Sunderland).—The first inventor of the chronometer was John Harrison, the son of a poor carpenter in Yorkshire. For this invention, in the year 1759, he received a premium of 20,000! from the Government. He had been studying how he could alter a clock, so as not to be subject to any bregularities from the motion of the ship or the difference of climate, from the end of the reign of Queen Anne until be brought it to perfection, having occupied 45 years in its unremulting study.

J. S." (Leeds).—The Holne Park Tin and Copper Mine Company has just been formed We do not know what ore has been raised; it ebstares are, we believe, all taken—probably we shall be able to give some further information next week.

bably we shall be able to give some further information next week.

Chemicas "(Wolverhampton).—Gold is employed for the purpose of gilding the sur faces of copper, brass, and sliver, in the following different processes:—I. Hot gilding for the ormola: the metal to be gilt is first washed with a solution of nitrate of mercury, or amalgamating water; this gives a mercurial surface, to which an amalgam of gold and mercury is applied, from which the mercury is driven off by heat. The colour is then heightened, by burning on it a cover of gilder's wax, formed of verdigiris, wax, and blue vitriol; it is then polished, and heightened by a boiling solution of common sait and cream of startar.—2. Greeian gilding of silver, which is performed by as lamnonia and corrowive sublimate) has been added. This solution of gold, ovaporated to the consistence of oil, is applied to the silver, which it blackens, but which appears gilded after being heated. Cold gilding is performed by rabbing the metal with the sakes of a linen rag, which has been impregnated with a solution of gold. Wet gilding by merely dipling the work into a solution of gold.

J. "(Newcastle).—The prices quoted for nail-root gold.

J. J." (Newcastle).—The prices quoted for nail-rods, hoops, and sheets, are for London if sold at the works, or at any shipping port, the difference of freight from the several places is to be deducted. The ironmasters, making their profit on the material, simply add the freight and charges to London.

and the freight and charges to London.

A Miner" (Cronsford).—Red silver is a very beautiful mineral; it is confined to a small number of localities, though in some of them it is of pretty frequent occurrence. The light red varieties are met with principally in the Saxon and Bohemian districts of the Erzgeldrage, particularly at Marienburg, Annaberg, and Johangeorgenstadt, in Saxon and Joachimsthal, in Bohemia. It is usually associated with other ores of silver, galena blende, pyrites, and arsenic; the dark red varieties occur chiefly with calcareous spar native arsenic, and galena, at Andreasberg (in the Hartz), Freiberg (in Saxony) Schemmitz and Nagybanya (in Hongary), Guadalcanal (in Spain), Kongsberg (in Norway), and St. Maire anx Mines (in France). It was formerly found at Huel Duchy, is Cornwall, and from some of the Mexican mines was quantities have been obtained Red silver, from its solour, may sometimes he mistskon for val orginisms; to this sea low streak of the latter is well defined, and its specific gravity lower. Clinnabar vols ilizes before the blow-pipe; while rod silver from a metallic globule. As an ore, i has been observed that the dark yield a larger proportion of silver than the light—than from Joachinsthal contained sulphuret of silver, 74:35; sulphuret of arsenic, 20:00. sha Slater (Newport).—An account of welding from and steel together was published.

John Slater (Newport).—An account of welding iron and steel together was publish in our Journal of the 8th July, 1848. Cast-steel in a white heat, and iron in a welt ing heat, will unite completely.

ing heat, will unite completely.

Brush " (Snow-hill),—In 2 lbs, of saturated solution of zinc, put 1 ounce of nitri acid; then, by the addition of potash, the excess of acid is saturated, and a white sub stance, soon becoming yellow, is precipitated; when white parts are discoverable in this yellow precipitate, it may be concluded no iron remains in the solution. If the zinc centains manganese, carbonate of potash is to be added, but short of the total pre cipitation of zinc; leaving the fluid on the solution two or three days, that if any magnese have been precipitated, it may be re-dissolved by the acid, the zinc precipitating in its place—the sulphate of zinc thus purified will furnish the white oxide of zinc on desirable by mainters.

*C. F.** (Birningham).—Gold can be dissolved completely by the sulphurets of alkalies merely by fasing equal parts of sulphur and potash with one-eighth of the total weight of gold in leaves; it may then be mixed, pulverised, and dissolved in hot-water, being an hydroguretted sulphuret of gold. Stahl affirms, that by this process Moses dissolved the golden calf.

T. M. B." (Swansen).—The smelting-works of Messra. Schneider, in South Australia have commenced operations—they are working under Napher's patent. Several of the people who started from Swansea, we hear, have given some causes of dissatisfaction to

A Dweller in Brittany."—A composition in powder, denominated German yeast, can be purchased in packets in London; this has been found a good substitute for yeast. Carbon to of magnesia has the effect of raising dough, but this must be used very sparingly—20 or 30 grains to about 4 lbs. of flour; the bread made with this must be baked in a quick heat, and not kept more than three or four days, as, when very stale, it has an nuclesson track

Isaac Whitehouse (Ruttel-lane).—Daniel's battery can be purchased of various sizes a different prices. One of the best works lately published on electricity is Gmelin's Hanbook of Chemistry, translated by Henry Watts, and issued by the Cavendish Society—can be procured of any respectable bookseller; the other queries shall be answered our next.

A Constant Reader" (Richmond). - The most common substance

"A Constant Realer" (Richmond).—The most common substance used for pointing is lamp-black with mortar; there is no certain proportions to be used, as different brick-layers vary in-their mixtures—generally adding so much black as will give a good colour to the mortar, depending more upon judgment than any rule.

"An Enquirer" (Old Broad-street).—Carbon, or pure charcoal, in its ordinary form; this substance is best represented by the charcoal prepared by exposing wood to a rod heat in close vessels. The diamond is a much pure variety. Charcoal is highly combustible, and has extensive powers of combination; when burnt in oxygen gas, it does not, under circumstance favourable to such a result, after the volume of the gas, but gives precisely an equal bulk of carbonic acid gas. This acid gas, if pure, has the specific gravity of 1-5277: hence 100 cubic inches weigh 47-262 grains—a specific weight which, in some subterraneous pi-sees, occasions it to occupy a situation nearest the ground. It is non-respirable, and is incapable of supporting combustion, Carbon is most extensively diffused through the mineral kingdom, especially in the compounds of carbonic acid with various bodies, and in the several varieties of ccal.

"A Speculator" (Guildford).—We understand the shares in the Worthing Mining Company are all alloited, and that a body of miners: a about to proceed, in a few days, from Plymouth, in order to work the company's mines, which have been partially opened by the promoters of the company.

"H." (Westminster).—If the letter signed "C." in our Journal of the 14th April, on

by the promoters of the company.

It "(Westminster).—If the letter signed "C.," in our Journal of the 14th April, on
the Modam Cobalt Works, contained any misstatements, our columns are open for their
refutation. We are eager, on all occasions, to elicit information on any subject that
may be of general interest to our readers, and willingly insert communications on
either side of a question, so long as they are conducted in a proper tone and gettlemanily bearing, but we must decline allowing our Journal to become a which for

⁴⁶ G. F. B." (Bath).—The eminent French chemist, Lavoisier, was guillotined by order Robespierre, A.D. 1794.

Robespierre, A.D. 1794.

H. Crosbie (Queen-street).—The Egyptians, among the nations of antiquity, appear to have possessed the greatest amount of chemical knowledge. They prepared sal ammoniac, common salt, vitriol, glass, enamel, tiles, painted earthenware, several metal and metallic alloys, soap, vinegar, beer, various mediciaes and pigments, and knew how to fix colours on silk by means of mordants. Whether the Chinese, who have long been acquainted with the preparation of sulphur, nitre, gunpowder, borax, alum, porceiain, verdegris, paper, together with dyeing, and the formation of various metallic alloys, are parily indebted to the Egyptians for their knowledge, is a question which must remain undecided.

must rumain undecided.

Dietricus. (Liverpool).—Grove's gas battery consists of a series of tubes, containing align of platina soil, covered with a pulverulent deposit of the same metal. The tubes are arranged in pairs, in separate vessels of silinte sulphuric acid; and of each pair one tube is charged with oxygen, and the other with hydrogen gas, in quantities such as to allow the platina to project above the silinte seld into the atmosphere of gas in the upper part of the tube. The platina in the oxygen of one pair is metallically connected with the platina in the hydrogen of the next—thas a series may be composed of any number of pairs. A buttery of four cells, constructed in this manner, will decompose acidulated water; a single cell will decompose lodide of potassium, and 20 pairs will produce very powerful effects—anch as giving a shock which may be felt by according to the poles are unconnected, a gold leaf electroscope, connected with either of them, is sensibly deflected. When distilled water is substitute for acidulated water in the cells of the battery, the effects are similar, but more fieble.

og Journal Office, 26, Fleet-street, Lond

THE MINING JOURNAL

Railway and Commercial Sagette.

LONDON, MAY 19, 1849.

We have the authority of the Queen's Government, given pub licly in the House of Commons, for stating that the hostilities now in progress in several parts of Europe have weighed somewhat in-juriously on the commerce and the revenue of the country for some juriously on the commerce and the revenue of the country for som weeks past. And what is thus officially stated, is confirmed by those who are engaged in the great mercantile transactions of the day. The statement, however, refers to the foreign trade of the kingdon those who are engaged in the great mercanthe transactors of the Anglom Property of the Internal trade of the kingdom exclusively. It is not pretended that the activity of the Internal trading and manufacturing circles of the kingdom has suffered either abatement or interruption. In mining business, particularly, things have at least kept their place, the tendency of prices being manifestly upwards, and the value of mining shares following, by a well ascertained law, in the same direction. But whatever should permanently disturb the amicable relations of the Christian states of Purpose would disturb its commerce and its markets; and, there-Europe, would disturb its commerce and its markets; and, therefore, the hope of England is that peace will, upon the whole, be preserved among her commercial neighbours. We are happy to know that in Wales, in the midland parts, and the west of England, mining affairs are in a rallying and a hopeful condition. In the majority of cases, the adventurers are receiving satisfactory dividends, and both employment and wages are such as to give general conmining affairs are in a ranying and the conjugate factory dividends, jority of cases, the adventurers are receiving satisfactory dividends, and both employment and wages are such as to give general contentment to the working classes. We could, it is true, wish to see a more highly improved state of things. We are for good profits to the masters and good wages to the men—good, that is, in the sense of enabling both to make a money reservation against those times which will happen in the history of every widely-trading community, when both species of remuneration will have run down to zero, or, possibly, when both may have become a negative quantity. But let us, at least, take thankfully the sunshine now passing over us, and trust that when the shadows of a less prosperous seaover us, and trust that when the shadows of a less prosperous season shall overtake us, that we shall still have some light.

The question mooted by a correspondent last week, on the necessity, or otherwise, of stamps being attached to transfers of shares in mines, is one to which too much importance cannot be attached in one sense; while we agree with him, on the other hand, there is no cause for alarm, and that it is a mere "bugbear." The 63d section of the Act for the Registration, Incorporation, and Regulation of Joint Stock Companies, 7 and 8 Vic., c. 110, exempts all partnerships, or companies formed for the working of mines, minerals, and quarries, of what nature soever on the principle commonly called the Cost-book System, as well as Irish anonymous partnerships, from the operation or clauses of the Act,* and we need hardly say, that mines worked in the counties of Cornwall and Devon have ever been conducted in such manner, the transfer being transmitted to the purser, to be entered in the cost-book, which is the only evito the purser, to be entered in the cost-book, which is the only evidence required in the Stannaries Court, or the shares signed off in the cost-book itself, by the party disposing of his interest, and in like manner accepted by the new adventurer. It is, therefore, absurd to suppose that the circular referred to can, in any way, affect the modus operandi in which our mines have been conducted for upwards of a century.

Usage becomes law: and, as there has never been an attempt to interfere with, or infringe, the custom to which we have referred, we fancy the Commissioners of Stamps, or even the Chancellor of the Exchequer, would find it not one of the easiest tasks to alter, or abrogate, a system which has worked so well for the national

ter, or abrogate, a system which has worked so well for the nationa welfare, and which at this time is affording employment to count less thousands. It is quite sufficient that we have an income tax upon the dividend-paying mines—not to advert to the free imports of foreign ores of slave produce, without a stamp tax being imposed; but we feel assured no Minister would be so wild and wanton as to attempt an extortion, which, in the end, would fail in its to has to attempt an exterion, which, in the end, would fair in its object, and do to the mining community—we refer more especially to the working miner—an injury more readily conceived than its direful effects can be well imagined.

We have only to observe, in noticing the letter of our correspon-

dent, that he may feel assured there is no cause for apprehension and one little matter we think will alone convince him that the and one little matter we think will alone convince him that the prince and the peasant—the heir to the Crown and the common working miner—row in the same boat. The Duke of Connwall is interested to the tune of some tens of thousands per annum, arising from leases of mines granted by the Duchy. Let there be obstacles thrown in the way of the prosecution of the working of mines, his Royal Highness's income will diminish, mines will be abandoned, miners thrown out of employ, poor rates increased, and "Unions"—not of happiness, but misery—enlarged beyond the ordinary powers of conception.

Although before all other things we dedicate our time, our attention, and the whole circle of our opportunities to the elucidation and enlargement of mining affairs at home and abroad, we are not, in consequence, excluded from—we do not incur so much as a momentary foreclosure of—our interests in the attainment by the British people of greater success in their general commerce, of a more remunerative prosecution of the arts, and in an increased fulness of the national cup with all material benefits. We are sure that advantages of such a class and compass as these are not to be won by a selfish policy, or to be secured by an indifferent and a hesitating exertiom. Our minds must be raised to the consideration, not of what is best for England, separated from the world, as though she what is best for England, separated from the world, as though she would live in a haughty and cloistered seclusion from it, but rather what it is her true policy and her best interest to do in the presence what it is her true policy and her best interest to do in the presence of that great family of nations, who are traversing every continent, and piercing every sea with the riches peculiar to the lands from which they are conveying them; and what it shall appear best todo in these circumstances, it is best to do vigorously and at once. In commerce the nations of the world are running a race, and most certainly the prize will be theirs who most thoroughly rid themselves of all impediments, and give themselves most unreservedly to the center. The great structure which the last fow days have all to the contest. The great statute which the last few days have all but seen the completion of will place the navigation of the United Kingdom on a new and an intelligible basis, and free the greatest maritime nation of this or any preceding age from those

tions and limitations, which have hitherto practically excluded its vessels and its flag from half the ports of the world.

We are full of hope as to the results, notwithstanding our fears that the change is essentially a very great venture. We have seen nowhere as yet an answer to the argument founded on this fact nowhere as yet an answer to the argument founded on this fact—that all along the least protected parts of our navigation have been the most prosperous—that, in fact, in those brauches of our seagoing efforts, where the restrictions of our maritime law did not reach us, our tonnage and our shipping increased in a proportion far greater than in those cases in which we went to sea armed with the equivocal advantages of our prohibitory laws. To us in these islands, and to the colonies in particular, we hope somewhat confidently that the change now nearly consumated, will result in the cheapening of freights, and, consequently, in the free exchange of vide Mining Almanact, pp. 349, et seq. merchandise throughout the world; and in that case we shall hear of the benefits which this measure will have distilled upon the distant mining depths of the Australias, as well as upon the corn fields and the pine forests of Canadian woodmen and agriculturalists.

The question of the great economy to be derived by railway compaules from having the entire traffic on their lines executed under contract, instead of through their own officials, has within the past fortuight shown itself of far greater importance than even we attached to it in the few observations we made in one or two late Numbers. We then mentioned that the Irish Midland line was to fortnight shown itself of far greater importance than even we attached to it in the few observations we made in one or two late Numbers. We then mentioned that the Irish Midland line was to be worked under contract at 1s. 3d. per mile, and we now find the contractor is Mr. Dawson, the eminent coach and carriage builder in Dublin. In Ireland, in addition to this, at present worked by contract, are the following:—The Irish South-Eastern, 10½ miles, by the Great Southern and Western Company; Dublin and Belfast Junction, from Drogheda to Dandalk, 22 miles, by Mr. Dargan, who constructed the majority of the Irish lines; Dundalk and Enniskillen, from Dundalk to Castleblaney, 20 miles, by Mr. Dargan, and the Midland Great Western, from Dublin to Mullingar, 50 miles, by Mr. Dawson. In England, we are happy to find, companies seem disposed to throw off this incubus, and thus avoid the enormous complexity attached to the system, and effect a vast saving in annual cost. The Eastern Counties—that most abused and deluded, of all abused and deluded companies—is now, it appears, about to enter into a contract with one of the most practical, intelligent, and highly substantial contractors in the kingdom, to work the line entirely on his own account; and, by the terms under consideration, it is believed the company will be gainers to the extent of at least 90,000/. annually. The North Staffordshire have advertised for tenders to work their line on like terms; and we have heard of one company, the directors of which have just entered into a contract, the contractor being a well-known and highly-responsible party, for the emire traffic work for 10 years. He is to find fuel, attendants, and every requisite for traffic purposes; and at the end of 10 years, should not the agreement be renewed, he is to give up the entire moveable stock in as good condition as he found it, being annually allowed a depreciation per centage thereon. It is most gratifying to find that the utmost popularity is evinced towards the measure, and that there

in the soundness of railway undertakings is incalculable; and if one measure more than another will tend to raise the market value of shares to anything approaching their former value, it must be the adoption of this measure. A man may have "too many irons in the fire," so may a company; and we believe the extensive machinery attached to the leviathan engineering establishments for the construction of locomotives, tenders, carriages, &c., with the notorious jobbing and pickings attached thereto, has been not one of the smallest items in their wide-spread extravagance and delusion, which the new system will remove; and companies, or individual engineers, will be found, who will manufacture the necessary plant, probably 40 or 50 per cent. in cost below what any of the great companies have ever yet succeeded in producing. We glean from the observations of the Observer, the Railway Record, and some other of our contemporaries, and perfectly agree therewith, that the plan of working which offers the most advantages to the company, is to give the contractor a per centage on the receipts, coupled with a sum per mile run, and a per centage on the value of the plant for repairs and depreclation of the stock. The last two items should be at such a price that the contractor cannot make a profit, but a loss in the working and repairs. Thus, he has no inducement to send out two engines when one will do the work, for he would lose doubly by so doing, unless he was hauling traffic, for which the per centage on the receipts would pay him.

This plan offers another important advantage to railway companies.

engines when one will not the work, for he would rose doubly by so using, unless he was hauling traffic, for which the per centage on the receipts would pay him.

This plan offers another important advantage to railway companies, which they have as yet been unable to attain. It most fully introduces the system (of which the policy is universally admitted) of paying their employées according to the work done, in contradistinction to the principle of paying fixed salaries. But above all the advantages which are attained by this proposed plan, the most important is, that the interests of the company and the contractor are made by it identical, the interest of the latter clearly being to assist in developing the traffic by every possible means in his power, and to work the line in the most efficient manner, to induce passengers to travel by it—his profits being, as we have before shown, solely dependent on the receipts of the line. We cannot, for a moment, believe that shareholders will pay 1s. 3d. per mile, if they can have the traffic efficiently performed for 7½d. or 6d., and we trust the time is not far distant, when our friends who have still persevered in proving the advantages of the atmospheric system, will be enabled boldly to take their stand as rail-way traffic contractors, and a line ever so short once carried out, we have no fear whatever of the result.

way traffic contractors, and a line ever so short once carried out, we have no fear whatever of the result.

Another feature which we may expect to see arise out of this new system is, the union of a few capitalists, or the formation of joint-stock companies, for the purpose of working railways by contract; and it is to be hoped that, after the great railway bubble has burst, numerous smaller ones may not arise from the same suds, possessing colours equally iridescent and alluring, but containing poison equally destructive. Of this we have, however, not much fear; those who have capital will hence be cautious how they invest it; and we trust the occupation of the wolf in sheep's clothing—18 GOXE.

how they invest it; and we trust the occupants, to allude to an advertisement in another column, signed "R. B. Watson." We have known this gentleman many years, as an established share broker in Leeds, and also a commercial broker in Hull—he having resided 16 years in the former place and 20 in the latter. The object sought, that of a few gentlemen of capital, whose professions and habits have enabled them to gain experience in the working of railways, uniting for the purpose of undertaking the traffic by contract is perfectly legitimate; and as Mr. Watson formerly rejoiced in adopting the motto, "Railways must progress," we trust himself and associates will soon find that "Railway contractors do progress."

Sydney letters to the 20th January have been received, by which it would appear that considerable shipments of provisions were being made to California, and surplus stocks of many articles that had been a drug in the market for some time past were being cleared for the gold country. Discoveries of copper, silver, lead, and iron are stated to have been made: a local paper refers to them as follows:—"It would seem that the district of Berrima, notwithstanding the abolition of the various sources on which it was supposed to have been dependent for its existence, is yet destined to become one of the most flourishing and wealthy in the colony. There appears to be no end to the riches contained in its soil—mines of all kinds are being worked; and, if report speaks true, with every certainty of proving profitable to the enterprising proprietors. First on the list is the copper mine of Mr. Throsby and others, on the Wollondilly, the ore of which is said to be very rich. Silver and lead have also been found on the same property. Mr. Ward, of Paddy's River, has discovered a silver and lead mine on his land, and specimens of the ore have been sent to Sydney to test the value thereof. And of Mr. Neale's iron mine, at the Ironstone Bridge, the public have already witnessed the success by the specimens of manufactured articles lately exhibited in Sydney. For this latter mine a number of hands are daily expected up, and when they arrive the work will proceed vigorously."

Advices to the 3d February have since been received. They contain little

are daily expected up, and when they arrive the work will proceed vigorously."

Advices to the 3d February have since been received. They contain little news beyond that which is of local interest. Mining adventures were progressing in New South Wales. The Fitzroy Mine, situated at Iron-bridge, on the great southern road, is favourably reported; stone and bricks were preparing for the furnace; in the meantime smelting was effected by means of a Cataline furnace, but machinery for extensve works was on the way from Sydney. Two shafts were being sunk, one 18 feet, and the other rather less. The ore that has been raised is very rich, and has the singular property of running into steel on being smelted. A company was forming, under the title of the Bathurst Copper Mining Company, capital 19,0004, in 2000 shures, of 54 each. The locality of this mine is at Sumerbill, on Campbell's River, about 25 miles from Bathurst the ore is reported to be very rich, and there is abundance of soap stone on the ground, which is said to be the best for resisting the intense heat of smelting furnaces. Business was still dull. Bank bills on England had unexpectedly risen to 3 per cent, premium.

ST. JOHN DEL REY MINING COMPANY.

We have received the superintendent's annual report for 1848, preparatory to the approaching usual meeting of shareholders in the above company, and which, as a whole, may be taken as a highly satisfactory progress of the operations and view of future prospects. An immense deal of mechanical works have been constructed during the year, the underground works greatly extended, the water leats put in thorough repair and improved in construction, spalling-floors greatly extended, a new and commodious hospital erected, and every possible exertion appears to have been made, and successful means

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tended, the water leats put in thorough repair and improved in construction, spalling-floors greatly extended, a new and commodions bespital erected, and every possible exertion appears to have been made, and successful means adopted to place this important company in a profitable and lasting position. Among other improvements, an incline plane has been laid down in the Cachoeira Mine, by which a carriage, with a kibble attached, moves rapidly from and to any part of the mine, by which the haulage of the sione is materially facilitated, and so successful was the experiment, that it was immediately decided to commence another for the Bahu Mine. Among other signs of prosperity, a new look had been discovered, likely to prove exceedingly rich, and, upon the whole, the property appears in a state of present profit, and with prospects of long years of future prosperity, far superior to any antecedent period.

The only drawback to this gratifying state of things is the sanitary condition of the people during the year; this can have arisen from no want of care or attention on the part of the authorities, but is to be solely attributed to climate and atmospheric influences. The chief medical officer (Mr. Birt), says in his report:—"The sanitary condition of the negree stablishment during the year: 1848 has been as unusually bad, as it was remarkably good in 1847. The causes co-operating to effect this difference are to me tolerably evident—viz, we have been visited by three distinct epidemics: two in which influenza was the prevailing disease, the third diarrhoa; and although neither of these periods were remarkable for mortality, yet it is utterly impossible for disease to rage to such an extent, without leaving certain traces prejudicial to the constitution and health of the subjects attacked, producing an aptitude for the conception of more active disease, and in diminishing the physical powers, so leaving the constitution less capable of resisting any further encroachment on its appliances. Of the 59 deaths, no les

IMPERIAL BRAZILIAN MINING ASSOCIATION.

The report presented by the directors of this association to the shareholders, at the half-yearly meeting held on Thursday last, a full account of which appears in another column, will be found a highly interesting document. They have most certainly been placed in rather a peculiar—and, perhaps, as trustees for a large number of shareholders over an extensive and valuable property, have most certainly been placed in rather a peculiar—and, perhaps, as trustees for a large number of shareholders over an extensive and valuable property, situated in a distant portion of the globe—not very onviable—one. After, throughout the previous year, Mr. Henwood had continued to give the most encouraging accounts of the appearances of the strata and of the progress of the works, accompanied by the usual average amounts of gold, and then, in one individual despatch, without any arrevious apparent doubt or want of confidence in the resources of the property, to breathe nothing but despondency, and recommend a winding up of the concern, was certainly as unlooked for and extraordinary an event as could under any circumstances be expected; and we can well imagine the consternation of the directors on first catching a view of the contents of the ominous epistle. We cannot, of course, attribute anything like motives for this premature expression of opinion by Mr. Henwood, his character standing too high in the estimation of all who know him; but we fear it has emanated from an absolute want of confidence in himself, which a nervous temperament probably has perverted into a want of confidence in the resources of the property. Seeing, however, the continued usual average returns of gold from Bananal, and aware that nothing but properly-arranged machinery is required to put the shaft down to 50 fins, the depth originally proposed by Capt. Hitchins and agreed to by Mr. Henwood, the directors, we think, had but one course to pursue.

They have taken advantage of Mr. Henwood's self-proposed retirement, and have engaged Capt. Hitchins, of the Devon Great Cousols Mines, to go out to the property, who we feel confident, from the very strong opinions he expressed in recommending Bananal to be purchased by the association—thus feeling himself, in some measure, personally responsible, from his provious long experience in Brazilian enterprise, and from his well-known general mining talent and mechanical ability—will very so

DEVON GREAT CONSOLS MINING COMPANY.

In last week's Mining Journal we gave a full report of the annual meeting of this important mining company, and having since received the detailed reports of Capt. J. H. Hitchins, we find the operations in both the important de-partments of tutwork and tribute have been carried out in an effective manner, with proper judicious economy; and the description of other works generally, the erection of machinery, and other additional surface arrangements, bears the erection of machinery, and other additional surface arrangements, bears testimony to the vigilance and foresight of good management, so necessary in such an important establishment. The number of fations driven during the year have been—Maria, 149 fms. 2 ft. 7 in.; Fauny, 207 fms. 5 ft. 1 in.; Anna, 189 fms. 1 ft. 6 in.; Josiah, 394 fms. 2 ft. 7 in.; Fauny, 207 fms. 5 ft. 1 in.; Anna, 189 fms. 1 ft. 6 in.; Josiah, 394 fms. 1 ft. 11 in.; and Frementor, 71 fms. 4 ft. 8 in.—making in all, 1012 fms. 3 ft. 9 in., at an average cost of \$1.95. 3d. per fm. The aggregate amount of fms. in sinking shafts and winzes was—shafts, 92 fms. 1 ft. 6 in., at an average cost of \$13.12s. 11d. per fm.; and winzes, 134 fms. 2 ft. 3 in., at 5!. 0s. 2d. per fm. In tutwork the monthly average. Of men has been 132, and tribute 181; the average monthly gettings of the former having been 2!. 13s. 6d per man, and for tribute \$! ft. 4d. With respect to the ore ground in sight, a most important point in all mining opertions, and more particularly so in a concern of each total little states. the ore ground in sight, a most important point in all mining opertions, and more particularly so in a concern of such magnitude, there appears to be in Maria, 25,045L worth; Fanny, 103,082L; Josiah, 69,151L; and Anna Maria, 13,182L—making a total of 200,460L in addition to this, there are at many points ore ground of high productiveness actually proved to be holding down for many fms. below the bottom levels, and showing every appearance to justify the inference that it will continue, but which is not taken any credit for in the above estimate. In the ample details given by Capt. Hitchins, of the position of the workings and appearances in all the setts, it may be fairly inferred that the property will continue a vast amount of highly-remunerative returns and a means of safe investment for many years to come.

THE COPPER TRADE.—We understand that some of the smelting monopoly communicated to Mr. B. Smith, their competitor, that if he would enter recently communicated to Mr. B. Smith, their compelitor, that if he would enter into their arrangements, the price of copper ore would immediately be lowered —a proposition which, we are happy to say, that gentleman would not listen to. This shows the power and advantages which some of the new processes of meeting place in the hands of those who adopt them. We are also informed, on good authority, that the smelters are in consequence using their utmost endeavours to enter into contracts with the importers of Australian and foreign ores, to secure for themselves the undisputed command of the market. Here they have likewise failed. Let the miners take encouragement from this.

IMPROVEMENTS IN RAILWAY WHEELS.

In last week's Mining Journal, we noticed that Mr. H. Smith, of West Bromwich, explained to the last meeting of the Institution of Mechanical Bromwich, explained to the last meeting of the Institution of Mechanical Engineers the principle of a new solid wrought-iron railway wheel lately patented by him. We have since had an opportunity of inspecting one of these wheels, and it does appear to our humble experience in such matters, and on common sense grounds, taking the usual characteristics of the different qualities of iron into consideration, that the principle involves real economy, safety, and durability, in an extraordinary degree, and fully deserves the high encomiums passed upon it by the experienced chairman, and many other members of the institution. In reading the description, it will be remarked that although a hoop is formed in the first instance of rolled metal, the forging which it subsequently undergoes thoroughly alters its character, and it becomes one solid and homogeneous mass of metal, thus by no means coming under the category of tyred wheels, and precluding almost the possibility of any portion breaking and flying off at high velocities. All readers of railway information are aware of the fatal accident on the Great Western Railway, by which a large portion of the tyre of a common cast wheel was projected upwards into the air, and falling through the roof of one of the carriages, killed a passenger on the spot, also injuring others; numerous other accidents have happened in various parts of the kingdom, through the breaking of the tyres, and we believe the invention under notice is calculated to number such accidents among the things which were. Its durability also in securing a clean and even wearing surface and perfect homogenity are great; while the disc portion, or all that within the flange and wearing exterior, may be considered as indestructible, as an outside hoop can at any time be welded on, in precisely the same manner as making a new one out of scrap iron, much easier, and in less time. We do consider the invention of vast importance to railway engineers and directors, and as Mr. Smith is quite ready to compete with Engineers the principle of a new solid wrought-iron railway wheel lately

COKE OVENS.

ried to William Wilkinson, of Yarrow, near Gateshear regrain improvements in the construction of coke oven stus to be connected therewith.—Inrolled May 16, 1849.]

Durham, coke manufacturer, for certain improvements in the construction of coke ovens, and in the machinery or appearatus to be connected therewith.—Inrolled May 16, 1849.]

This invention is stated in the specification to have relation to three different points—1. To supplying the air necessary to effect the charring of the coal in a more equable manner than heretofore.—2. To removing the coke from the ovens in such a way as to supersede manual labour.—3. To the application of the heated gaseous products of combustion to the evanous of saline solutions.

coke from the ovens in such a way as to supersede manual labour.—3. To the application of the heated gaseous products of combustion to the evaporation of saline solutions.

The first part of this invention is carried into effect by constructing the coke oven with flues formed in the brickwork, near the arch, such flues being open at the front of the oven, and being situate at the two sides and back thereof, forming a continuous air passage throughout, having a number of lateral air passages communicating with these flues and the interior of the oven. The door of this oven is made the entire width thereof. The patentee prefers that this oven should be constructed of the following dimensions—14 feet long by 8 feet wide, and 3 feet high to the springing of the arch, with an arch of 4 feet radius. The floor to be raised I foot above the ground, with an inclination towards the front of the oven of 6 inches. When in operation, the air is allowed to pass through the flues and lateral air passages, upon and into the incandescent mass contained in the interior of the oven, facilitating the coking.

The second part of this invention consists in having clearing plates placed at the back of the oven, rods being attached to such plates at the back thereof, passing through openings at the back of the oven to its outside; these rods have a rack formed on the underside, into which a prinon takes, such pinion being attached to a shaft resting in suitable bearings, running parrallel to the back of the oven and at right angles to the rods affixed to the plates. The pinions are capable of siding upon the shaft, if desired. This shaft is carried throughout a whole range of ovens, and being connected with a steam-engine, or other prime mover, it is obvious that the proper rotary motion being imparted to it will carry the pinions round, and cause them to act upon the racks attached to the plate-rods throughout the range of ovens, pushing the plates forward, and, consequently, the coke contained therein: thus effecting the clearing of

The third part of the invention is thus carried into effect:—Behind the coke oven, but above the level thereof, is placed the evaporating pan; beneath which flues are situate, communicating at right angles with other flues passing into the oven. Situate underneath the evaporating pan are furnaces for the purpose of raising the temperature of the flues and controlling evaporation. Beyond the evaporating pan is placed the crystallizing pan, with furnaces beneath, and having communication with the evaporating pan by means of a pipe, furnished with a stop-cock, and also communicating with a receptacle for the salt. When in operation, the evaporating pan is to be filled with salt water; and when the liquor is supposed to be sufficiently evaporated or concentrated, a quantity is to be let into the crystallizing pan, and there purified by a well-known process, previous to carrying out the operation.

In conclusion, the patentee claims, under the letters patent granted to him, to the following effect:—1. The oven and process of coking, before set forth and exemplified.—2. The mechanism applied to coke ovens for discharging the contents thereof, set forth and exemplified by the sheet of drawing attached to the specification, or any analogous machinery.—3. The application of the products from the coking oven to the evaporations of saline solutions.

Patent-office and Designs Registry, 210, Strand, May 17.

Pa'ent-affice and Designs Registry, 210, Strand, May 17.

RAILWAY TRAVELLING TRUNK.—Mr. James, trunk-maker, of Oxford-street has recently registered an improved trunk, specially adapted for railway travellers, being rendered of extra strength and neatness, by the adoption of iron binding, and brass-headed nails. It also possesses the novel appendage of a callapsible hat case, which may, if desired, be compressed, or collapsed, into a small space at the bottom of the interior, leaving nearly the whole of the trunk free for the reception of luggage. The collapsible hat case may be fitted to the ordinary trunks, if desired.

the ordinary trunks, if desired.

Comparative Statement of Teapvic on the York and North MidLand Rallway.—The lines of the York and North Midland Railway Company
comprise in extent 255 miles, and are the medium of communication between
the manufacturing districts of Lancashire and Yorkshire and the port of Hull,
as also with the eastern side of Scotland, and the great mining counties of Durham and Northumberland, the coal and goods of which in transit southward,
with the whole passenger traffic, are obliged to traverse the York and North
Midland lines. It appears, of the immense traffic which does pass along a railway of such extent and so situated, that the Whitby Stone Company, during
the 18 months ending December 31, 1848, supplied 1 part in 23 of the whole
tomage on those lines; and though using 6 miles only of that part of railway
nearest to Whitby (the place of shipment), have contributed in dues and rent
of waggons I part in 72 of the revenue derived from traffic, and I part in 152
of the whole revenue from every source.

RAILWAY TRAVELLING .- The number of passengers conveyed on all the rail-RAILWAY TRAVELLING.—The number of passengers conveyed on all the railways in the United Kingdom, during the year ending the 80th June, 1848, was 57,965,070; of this number 7,160,779 travelled in first-class carriages, 21,696,509 in second, 15,241,529 in third, 13,092,489 in parliamentary, and 739,765 in mixed class. The total amount received from all classes of passengers during the same period was 5,720,832. 9s. 134.; of which 1,792,533. 9s. 8d. was for first-class, and 2,352,152. 11s. 6d. for second-class fares. The amount received for conveyance of mails, goods, cattle, &c., was 4,213,1691 14s. 5d. Thus the total receipts were 9,933,552. 3s. 7d.

ELECTRIC TELEGRAPH IN THE RIVER THAMES.—In the Court of Common Council, on Thursday, a report was brought up from the Thames Navigation and Port of London Committee, for sealing a deed relative to laying down the electric telegraph in the River Thames. It stated that the committee had taken into consideration the application of Messrs. Blunt, civil engineers, for permission to lay down an electric telegraph in the River Thames, to communicate with a coast line telegraph. That as the committee are of opinion the proposal for laying down the lines was of public and national importance, they were disinclined to prohibit or embarrass the undertaking, and, therefore, did not authorise it, so as to incur any responsibility, leaving Messrs. Blunt to lay down lines at their own risk, they undertaking to do no damage either to the public or to individuals, and to stop all further works when required so to do, and to remove any work that shall be found injurious. The report was agreed to, and the City seal was set to the conditions prescribed by the City solicitor. ELECTRIC TELEGRAPH IN THE RIVER THAMES.—In the Court of Commo

Original Correspondence.

ON THE RATING OF RAILWAY PROPERTY, AND OF STEAM-ENGINES GENERALLY, FOR THE RELIEF OF THE POOR.

SIR,—As it has been the practice until very lately to rate freshold pro-perty only to the poor, it is much to be regretted that any deviation from that general rule should have been attempted in a manufacturing and that general rule should have been attempted in a manufacturing and mercantile country like our own, without the sanction of an Act of Parliament, as it is very clear that any partial deviation from so old a practice cannot but be fraught with great injustice towards such parties as the deviations in question may affect. It is one of those practices which let in the greatest of all abuses—viz.: that of creating one custom for the rich, another for the poor, inasmuch as a poor man, with his little personal property employed in a small steam-engine, to carry on his trade, is rated for the same; whereas his rich neighbour, who has an immense personal property employed in horses, carriages, function, &c., pays nothing. It has for a few years been partially the practice to rate steam-engines, which was, I presume, brought about by some lawyers arguing that steam-engines are a "power," and ought to be rated! Why not horses, which are also a power? In the former instance the power is maintained by feeding with very an expensive property is to be rated to the poor it should be so dealt with in toto, particularly all funded property, which has a greater proximity to freehold than any other of its class, regarding which there are many reasons why it should not escape contributing its quots towards the poor's rate. To this end a general property tax, for the relief of the poor, would probably be at once the most simple and efficient. If, however, it should be thought better to provide for the poor by a parish rate upon personal as well as freehold property, there would be no difficulty in apportioning that of railways amongst the individual parishes passed through—viz.: the freehold consisting of land, buildings, and fixtures; the personal of the iron rails, according to the weight laid down in each parish, and the gross amount of what is termed the rolling stock, by a division amongst the parishes passed through property to the length of rails in each parish. It is much to be wished that this unjust and irregular practic mercantile country like our own, without the sanction of an Act of Par-

RAILWAYS AND MINES-By PLACER.-No. III.

Barnborough Hall, Rotherham, May 15.

RAHLWAYS AND MINES—By Placer.—No. III.

"Lost men suspect your tale unitrue, Keep probability of the control of the bounds, The credit of his book confounds." —Geys Fables.

Sin.—We are indebted to your correspondent, "Excineer," whom we consider has dealt very fairly with our previous remarks on the above interesting subjects in his paper called "No. I.," in your last Mining Journal, and premising that you and your readers will agree that discussion is the best means of eliciting truth, we take the liberty of offering a few remarks in reply, relying upon your usual fiberality in giving them a place in your columns. Your correspondent can show that he possesses stact as well as talent, for the gist of his letter is contained in the short concluding paragraph, wherein he appeals to us, "that it is unfair to take the difference in prices of railway shares at different dates as a loss." We admit this to be a point open to discussion to a certain extent. "Exoneers," doubtless, implies that, although THIRTY MILLIONS STELLING of depreciation may be shown to have taken place in railway shares within the last nine weeks, that amount of property has merely changed hands, and is not lost capital. True, the railways which represent the capital remain, and somebody hold the depreciated shares, whilst the difference in their value between March 10 and May 17 has gone out of somebody's pocket. Let us take an instance. At the first of these dates, Grear Western shares were solling at 97; at the latter they were at 77, or 204 per share reduction. Thus, if "Exoneers "himself were to require a loan upon 100 such shares to-day, he would obtain just 90001 less upon them (being the sum representing their actual depreciation in value within the two periods, and have to sustain, besides, an absolute and perceptible loss of dividend, as a natural consequence of depreciation of capital. This case, suppositious in one sense, but real in another, represents millions of others; and if it does not show

of the day, had there been any "pleasures" to record, which is certainly a dubious question.

Before arriving at the more statistical point of our remarks, but always keeping in view that "Engineer" is of opinion that "there is no reason why railways should not revert to their original state on the gradual subsidence of the exciting causes of depression," we may allude to a freak in railway enterprise, which, we think, will prevent that particular line, so signally burthened with unprofitable branches, ever righting itself so as to pay a respectable dividend. We allude to the South-Eastern; the key to the continent, whose 33t shares are quoted 20t—perhaps as much as they are, or ever will be, worth; and in attempting to show one cause of their low value, due allowance must be made for circumstances over which the projectors might not have had, in the first instance, sufficient control.

Dover Ramsgate Deal Margate ... Sandwich Canterbury

or should not be paid for the current half-year. The committee disputed, and the ancient directors were for recommending it. All the world knows that the committee carried their point—so there is an end of all question of dividend for a time; yet the shareholders would naturally be glad to know when they may look forward to its resumption. This is a point we propose to examine.

oint we propose to examine.

The capital of this company is about RIGHT MILLIONS AND A HALF; interest thereon, at 5 per cent.

Amount of interest on loans represented by debentures, and, therefore, in the nature of a mortgage, £896,955; interest thereon

interest payable on bonds.

miterest payable on preference shares on guaranteed lines.

traffic (or income) in passengers and goods, which are, as nearly as possi-about equal in amount, may be taken at, per week.

to for working expenses, 45 per cent.; wear and tear (above the average other lines, in consequence of the large portion of goods' traffic), but say or cent.—TOTAL, PLITY EXCENT.

Net earnings per week (or per annum, £390,000) £7,500 Out of this sum there must be paid, before a dividend can be thought of, the three last items of annual interest, amounting to 174,475L, and leaving a surplus of 215,525L; but, inasmuch as the derived of the company not yet charged to Capital far exceed this latter sum, there is nothing whatever left for dividend; and at present the capital of the Eastern Counties ranks as mi—it is, in fact, lost, dissipated, gone. What time, increased traffic, better management, and economy may do, to restore a dividend, remains to be seen. What will be the permanent amount of it, whether one-half or one per cent., is a problem, which perhaps your correspondent, in his future promised letters, will kindly assist us to solve.

In taking our present leave of "Engineer," we could wish him a better theme to write upon than rathways as a safe property to invest in. Most of them are just the reverse of that—absolutely unsafe, because perfectly fictitious in value; and although there may be few in so utterly an insolvent state as the Eastern Counties, it is to be feared that others will prove so sooner or later; for, be it remembered, that both the origin and management of them have been in hands of few individuals, and those few reduced by the majority yielding to the guidance of a minority, until Out of this sum there must be paid, before a dividend can be thought of, the three last items of annual interest, amounting to 174.475L, and leaving

and management of them have been in hands of few individuals, and those few reduced by the majority yielding to the guidance of a minority, until extravagance of every kind, borrowing, and guaranteeing, has become a system, which would have been "better honoured in the breach than in the observance." The purely legitimate object of a railway should have been to connect distant places with each other as shortly and as cheaply as possible—to convey our millions of tons of manufactures to our shipping ports, and our imports of raw produce to the manufacturing districts—our coals, and other minerals, to the places of consumption, and to have made the carrying of passengers a secondary consideration, leaving the rural districts to themselves, or, at any rate, the choice of the coach or the post-chaise. Instead of this, the accomplishment of a perfect monopoly has ended in the ruin of thousands "of shareholders, or dupes as they are called "—whilst, in the eagerness for traffic, every kind of cheap excursion is held forth as a lure to the lower classes to spend about ten times as much in locomotion as they ever spent before railways were formed, and, in most cases, far beyond what they can afford. Even the man of wealth, whose time and money are his own, approaches a station with feelings

oney are his own, approaches a station with feelings ifference—glad after he has taken his seat that his jourour and indiffe of langour and indifference—glad after he has taken his seat that his jour ney is over in safety, and happy when he finds himself surrounded at his willa, or at his inn, with associations amongst which the "pleasures and advantages of railway travelling" not only form no part, but would rather be forgotten than remembered,—London, May 18.

MR. HORSLEY'S PATENT PROCESS FOR PURIFYING WATER.

Sie,-No one can doubt for a moment the paramount importance of pure and wholesome water. It is, by proper emphasis, the blessing of essings-the essential element of human enjoyment. Disease and death hinge on its impurity; and health and life are vitally connected with its freedom from noxious principles. The earnest search after filters, and ready promptitude to supply the want, from Robins to Ransome, all evince the uneasiness of the public, and their feverish sensibility to the importance of the question; while the numerical array of filters paraded before the The blessing and demonstrate the inquietude of dissatisfaction. the boon of a beneficient Providence are concentrated in this emphatic

the boon of a beneficient Providence are concentrated in this emphatic promise—" Thy bread shall be given, and water shall be sure."

No person capable of exercising the elements of his reason can question the injury done to health by hard water—that is, water invested with calcareous or other earthy impregnations; and as little doubt can arise on the dangers connected with the presence of the germs and developments of animalcular life—in fact, of organic matter of any kind, whether derived from an animal or vegetable source, feetid exhalations and lethal gases; and septic poisons are the offspring of their decomposition; and to be compelled to swallow potations of water instinct with life, vivified at a season when the cool and refreshing beverage is most needed and essential, is an aggravated feature of the evil.

Incrustations in boilers, &c., I shall in a future communication fearlessly discuss and honestly investigate. My object at present is simply to consider the bearing of pure and wholesome water on human life—not to speak of its importance to the inferior tribes of creation; and though it has never been suspected, or mooted, it is a question of very serious moment

speak of its importance to the interior tribes of creation; and though it has never been suspected, or mooted, it is a question of very serious moment how far many of the diseases incidental to horses and cattle, as well as sheep, and which have assumed of late such malignant types (clearly of an infectious character, and as unquestionably aggravated by local circumstances), may or may not be fairly attributable to stagnant and otherwise

In the county of Norfolk, for example, where hard water almost univer-In the county of Norfolk, for example, where hard water almost universally prevails, in the same ratio do calculous diseases obtain, and the Norwich Hospital has long been, par excellence, too prominent in the numbers which are the victims of calculous disease; and it is, therefore, also a legitimate inference to believe that gouty concretions and billiary calculi are linked as cause and effect to hard water, or water holding more or less earthy matters in solution. As to goiture or bronchocele, as developed on the continent, or in this country, especially in Derbyshire, I never doubted its being chargeable directly and immediately on bad water. My observations and investigations in Switzerland leave no doubt whatever on my mind as to the essential root of the evil.

What has been termed "English," or "British cholera,"as well as other seasonal diseases prevalent in warm summers and in autumn, have been

seasonal diseases prevalent in warm summers and in autumn, have been most unreasonably and unwarrantably charged on eating fruit; but the combined testimony of the physicians and other eminent medical gentlemen of London entirely falsify the gratuitous assumption—a moderate quantity of ripe fruit is calculated to sustain health. The best things may be abused, and unripe fruit, and an immoderate quantity of even ripe fruit, bused, and unripe fruit, and an immoderate quantity of even ripe fruit, and an immoderate quantity of even ripe fruit, derange the functions, but these are the abuse of a beneficent boom truth is, that the diseases referred to have to do with impure and un wholesome water, impregnated with organic matter, connected mostly with animalcular existence, or the feelid gases and exhalations resulting from their destruction and decomposition, such as sulphuretted hydrogen and hydrosulphite of ammonia. The cases already referred to in a former ommunication of mine, of horses and cattle, as well as human beings, eing seriously affected by the waters of the Ness, as well as the cessation cholera at Dumfries among its inhabitants on their abandoning the use of the waters of the Nith, seem to me to amount to demonstration

I have already alluded to the decomposition of organic matter in the Hull water, and the presence of feetid gases and animacular life after the water had passed through the filter. The Thames water on shipboard has emitted at sea inflammable gases, which have been fired at the bung-hole by a lighted candle; and a surgeon on board an East Indiaman once informed me he had seen Thames water swarming with myriads of living beings, and otherwise nauseous beyond measure. What wonder that sickness should so frequently saize upon the crew in circumstances like these! Cantains

and otherwise nauseous beyond measure. What wonder that sickness should so frequently seize upon the crew in circumstances like these! Captains Snape and Boxall, of the 63d regiment, who were engaged in the ill-fated expedition to Walcheren, told me that such was the horric state of the water they were doomed to drink, that their teeth were used as strainers! What else could be expected but disease and death among the noxious emanations and poisonous water of the swamps of Walcheren.

NO FILTER on earth can remedy these evils, for this plain reason, because no mechanical means whatever can separate the elements of a chemical combination. Let it be remembered, therefore, that the mere retention of feculent, or other matter, mechanically suspended, cannot in anywise alter the chemical composition of water, which remains precisely as it was, hard or soft, as the case may be, or imbued with the germs of animalcular life, to be subsequently vivified by the vital warmth of the sun, &c. Mere transparency is nothing to the purpose; indeed, it is a curious

fact, that some of the hardest waters in existence are remarkable for their

fact, that some of the surpress values of the peculiar crystalline transparency.

Mr. Horsley's patent process seems to me to strike at the root of the evil, and to be the very first plan ever proposed for this end and purpose I must, however, resume this great question in a subsequent communication.—J. Murray: Portland-place, Hull, May 9.

"THE SCHOOLMASTER ARROAD (2)"

"THE SCHOOLMASTER ABROAD (?)"

Sire,—Amid the diffusion of science and emanations of knowledge, the ignorance which universally prevails astonishes me beyond measure. There is light enough, and easily accessible, but "the darkness comprehendeth it not." This reflection was naturally elicited by the late occurrence at "Miss Mann's establishment," in the neighbourhood of the "great metropolis." Here four human beings lost their lives from ignorance the most besotted—ignorance which might throw Paganism into sunshine, itself the eclipsed. In this phenomenon of the nineteenth century it should seem what is called "prepared or patent fuel" was employed in a stove without a chimney! It turned out to be merely charcoal made from common fit deal, and not oak, as pretended by the sellers. As to the kind of wood, however, in the form of charcoal, it would make no earthly difference in the danger accruing from the gases—carbonic oxide and carbonic acid gas—the invariable products of the combustion of charcoal, from whatever source derived—lethal emanations, all of them. It seems that this prepared or patent fuel was sold at "an extravagant rate;" and a "portable stove," which claims the name of "Carman" for its author, was employed on this fatal occasion. The insane ignorance altogether displayed on this fatal occasion. The insane ignorance altogether displayed on this that of the stove nor that of the prepared feel would have escaped; for the rest, pity would have pardoned unparalleled ignorance.

Perhaps you may remember that, some time ago, a very dangerous play-

quest, neither the author of the stove nor that of the prepared fuel would have escaped; for the rest, pity would have pardoned unparalleled ignorance. Perhaps you may remember that, some time ago, a very dangerous plaything, called Harper and Joyce's stove, was introduced; it had, in like manner, its "prepared charcoal," and of which Carman's stove, and its adjunct, seem to have been the crambe repetita. This marvel of the time proved a "nine days' wonder;" it was exhibited at the Jerusalem Coffeehouse, and sufficiently stared at; and, while the mass marvelled, Science "laughed in her sleeve" at the scene, and this extravaganza of folly; even the ex-Chancellor Brougham (crædat Judaus) had it placed on the dinner table "to diffuse a genial warmth," and carried it, too, with him in his carriage. What "case-hardened "lungs must Brougham have been blessed with! At length the bubble burst; James Tricky fell a victim to watching the stove, in St. Michael's Church, Cornhill, and others perished; and no less than nearly 60 persons were removed at one time from a church in Norfolk in a state of partial or total insensibility. The French seavans marvelled, as well they might, at what this new process of combustion might be. Gay Lussac got a portion of the "prepared fuel" and found it merely the charcoal of fir deal. Then it was prefended that it was steeped in a carbonated alkali!—Laut pis. This would only add "fuel to flame." The carbonic acid gas displaced from the carbonated alkali would, of course, aggravate the evil—two blacks will never make white. The parallelism of these two cases is very remarkable; it is simply Harper and Joyce redivious. It did my best to expose the imposition of Harper and Joyce at the time, but it seems the "snake was only scotched." J. Mureax. Hull, May 8.

ELECTRO - MAGNETIC ENGINE.

ELECTRO - MAGNETIC ENGINE.

SIR,—The subject of a locomotive-engine, propelled by electro-magnetic agency, has been recently introduced in your pages. You will remember, some years ago, I brough the fore the public, through the medium of the Mining Journal, the case of Mr. Davidson, of Aberdeen, with whose very interesting exhibition of electro-magnetic engines, in the Egyptian Hall, Piccadilly, the solicitor of Mr. Talbot so rudely interfered. Numerous were these working electro-magnetic engines—saw mill, turning lathe, and many more; among others, an electro-magnetic impelled locomotive, which whirled its passenger round a circle at the rate of nearly 100 miles an hour, and I can personally attest the ease of this flying transport. I knew Mr. Davidson at Aberdeen, and recognized his ingenuity long before Mr. Talbot was known to science.—J. MURRAY: Portland-place, Hull, May 15.

SAFETY URN.

SIR.—How far the Count de Werdinsky's plan for the destruction of the "fire-damp" in mines, as eliminated in his letter to Lord John Russell, is either practicable or safe, I shall not dogmatically venture to decide, whatever doubts may be reasonably entertained. Twenty-five years ago I proposed and published a safety urn, for consuming the fire-damp in the nine; it was at once simple and safe.

J. MURRAY. was at once simple and and-place, Hull, May 15.

VISUAL IMPRESSION ON THE RETINA

VISUAL IMPRESSION ON THE RETINA.

Sir,—Whilst making the experiments detailed in the Mining Journal of the 12th inst., on the decomposition of light by reflection, I observed the following curious effects:—On looking through a hole made with a pin in a card, I noticed two sets of small black rings, surrounded by light ones, the interior of the nearest set being also of the same degree of brightness as the white ring outside. The nearest set of rings are very distinct, the remote ones more obscure, having a misty or nebulous appearance. The cause of these rings seems to be permanent and fixed, or, at least, is incapable of motion beyond a certain space. When I wished to look towards the right, without sensibly moving the eye, the rings moved to the right; when to the left, they moved to the left; when upward or downward, they moved in the corresponding direction; and on steadily observing any object, they remained quite stationary. The motion of the nebulous rings is quicker, and extends over a larger space than that of the others—at the same time, they are confined to certain relative limits, and their origin seems to be identical. The rings in each set preserve the same distance from each other, in whatever direction they move. The permanency of these rings show that they result from the mechanism of the eye, and, in all probability, from impressions made on the retina, or nervous coats, by light; or, perhaps, they are produced by inequalities natural or accidental in those coats, which act in a similar manner to inequalities in glass, and cause some of the light to deviate from its proper course, before it produces its natural effect on the optic nerve. The card, by obscuring the light, renders these effects visible.—J. J. Lake: Royal Laboratory, Gosport, May 16.

STEAM-BOILER EXPLOSIONS-MR. A. DUNN'S INVENTION.

STEAM-BOILER EXPLOSIONS—Mr. A. DUNN'S INVENTION.

SIR,—This invention, which I have inspected in its details, deserves, from its merits, to be ranked with that of the Davy lamp; and, should any fatal accidents hereafter arise from boiler explosions, they will be chargeable wholly to the neglect, or indifference, of manufacturers in not adopting Mr. Dunn's preventive apparatus. No engineer, unless bent upon suicide, would neglect the timely warning which the signal bell will give in every instance with unerring certainty.

In a fatal instance of explosion which came under my immediate notice, and in which three lives were sacrificed, it appeared that the water had got very low in the boiler, which was hemispherical, with the bottom indeated inwards, the boiler was worn, very much in some next, upon its

got very low in the boiler, which was hemispherical, with the bottom in-dented inwards; the boiler was worn very much in some parts upon its upper surface by atmospheric exposure for many years; and the plate was not thicker than a shilling in one or two places. The sides, however, around the bottom were not worn, and were fully three-eighths thick. There appears to have been no more water in the boiler than would lodge around the bottom were not worn, and were fully three-eighths thick. There appears to have been no more water in the boiler than would lodge round the angle formed by the sides and bottom, leaving the central indentation dry, and probably red-hot—the sides, a few inches above the water line, being in the same predicament. The engineer knew that the water was low, and beyond the indication of the float, which did not range sufficiently; he was, therefore, uneasy, but yet was not aware how low the water really stood. The engine was standing for a short time; and the engineer had been bullied by the manager, and dared by him to loss steam, either by letting it off, or by letting on the supply of water. Trusting that he should have immediate orders again to start the engine, and thereby be able to let on a supply of hot water in time to avert any mischief, and fearing to disobey orders by letting off steam, damping his fires, or otherwise, the engineer delayed until the increase of temperature brought on the fatal moment of explosion. The boiler was cut off as with a knife through the thickest and strongest of the plates, a few inches above the bottom, probably exactly at the water line; and the upper or hemispherical portion was separated all round from the bottom, and thrown to a great height porpendicularly; for it fell in an inverted position, almost exactly upon its former bed. Now, had this boiler been furnished with Mr. Dunn's warning bell, no lives would have been lost. The manager would not have dared to disregard the signal; and, even if he had, the engineer, with his brother, his wife, and two children, who were seated or standing upon the boiler steps, would have heard the bell, and would, of course have consulted their own safety. This engineer was a careful, steady man, who had worked an engine for 14 years without any accident. The immediate cause of the accident was the absence of any sure indication of the temperature within the boiler. The pressure of the steam was insufficient to rupture the plates of the boiler, when no thicker than a shilling; yet the instantaneous explosion effected a separation through the strongest and thickest portion of the sides next the water line.

The more minutely and closely the merits of Mr. Dunn's invention are examined, the higher will be the opinion of them formed by unprejudiced parties understanding the natural laws upon which Mr. Dunn has founded his method, and who can, at the same time, perceive the ease and cer-

parties understanding the natural laws upon which Mr. Dunn has parties understanding the natural laws upon which Mr. Dunn has been been as and certainty with which the invention can in every instance be successfully applied.—ROBERT MUSHET: Coleford, May 16.

RICHARDSON AND CO.'S PATENT BRASS AND COPPER TUBES. SIR,—We perceived, in your Journal of the 12th inst., a communication, signed "Observer," calling in question the novelty of our improvements in the manufacture of brass and copper tubes, embodied in a patent recently granted us. It is evident "Observer" is not a long-sighted one, and that he has meddled with a subject of which he knows nothing, and his native ingenuity has been applied to the purpose of perverting the truth. Had "Observer" the wish or capability of furthering the advancement of science, he would have told us his real name, and not have borrowed one to which he can lay no claim; also, where our process has been heretofore used, with what results, and if any tubes produced, to whom sold? I trust "Observer" will receive our admonition in the spirit of charity.

Darlaston Tube-Works, May 17. W. H. RICHARDSON, Jun. & Co.

ECONOMY OF PERCHLORIDE ENGINE FOR RAILWAY TRANSIT Sir,—In the experiments which have been made on the atmospheric principle of railway propulsion, it was found that a considerable loss of power was occasioned by the attenuated air in vacuum pipes absorbing caloric from the surrounding atmosphere. On hearing of the proposed application of the exhaust steam from the steam-engine for generating "vapour of perchloride, or other easily vapourised liquids," it occurred to me, that if the heated air discharged by the piston of the air-pump was applied in a similar manner, the absorption of caloric by the rarefied air in the vacuum pipe, in lieu of being an obstacle to the application of the atmospheric principle, would prove a real advantage. Subsequent reflection and investigation of the subject has tended materially to strengthen and confirm that opinion. From the report of the commissionersappointed by the French Government, "to examine an apparatus working by means of the vapour of perchloride," which has been translated and published by the promoters of the "Combined Vapour-Engine Company," it appears that in some of their experiments a pressure in the vapouriser of perchloride of 16°5 lbs. above the pressure of the atmosphere was obtained, with a vacuum in the condenser of the steam (viz.: vapouriser of perchloride) of from 15°7 to 18 in. of mercury—thus proving that the heat derivable from the waste steam applied to the external surface of the tubes of the vapouriser, at a temperature considerably below the boiling point of water, is sufficient to develope a pressure in the vapouriser of 16°5 lbs. The temperature at which the air would be discharged from the air-pump of an atmospheric railway will, of course, depend upon the degree of exhaustion in the vacuum pipe, the temperature of the surrounding atmosphere, and other circumstances. Mr. Brunel, in his evidence before the "Parliamentary Committee on Atmospheric Railways" in 1845, assumed it at 250°, being 38° above the boiling point of water. If that degree of heat may be taken as the mean, or even the maxim Sir,-In the experiments which have been made on the atmosp principle of railway propulsion, it was found that a considerable loss of

tion of its caloric.

In addition to the valves connected with the air-pump, it would be necessary to provide one or more for the discharge port of the vapouriser; otherwise the advantage of the contraction of the air in the vapouriser will be lost; but it is probable that the signal failure of the first rade attempts to apply the atmospheric principle to practice has induced the belief in be lost; but it is probable that the signal failure of the first rude attempts to apply the atmospheric principle to practice has induced the belief in most of your readers, and the public generally, that the principle is abandoned for ever. I, however, am of a different opinion, and for this reason—viz.: that, as the principle has been demonstrated to be correct, the means for economically applying it to practice, if they have not already, will soon be discovered, especially if men of inventive genius could be led to perceive the incalculable advantages, both scientific and social, of amalgamating their means and combining their energies.

May 10.

An Engineer of the Next Generation.

STEAM-CARRIAGES ON COMMON ROADS.

I have observed allusion made to the circumstance of an enterprising party being now engaged in constructing a steam-carriage for common roads, which they mean to try on the road to Reading, and contemplate being enabled to convey the public at ½d. per mile; permit me to state, in order that an erroneous impression may not be made, that the price named is for what is termed outside passengers. It is proposed, should it be deemed needful, or desirable, to make provision for three descriptions of passengers—viz: first, second, and third-class, to charge 1½d., 1d., ½d. per mile—which they imagine will afford a much larger return for the outsy than the most favourably constructed railway that has ever yet been made. The average speed intended is 12 miles per hour, including stoppages—thus affording the means of passengers being taken up and put down on any part of the road; the party, therefore, hope to find that by far the greater portion of the public will be influenced by this great convenience, and economy of money, to patronise the undertaking, and deem that the advantages gained will amply compensate for the loss of time.

5 mo., 15th.

One of the Party. I have observed allusion made to the circumstance of an ent ONE OF THE PARTY.

RADLEY'S PATENT AIR-PUMP.

RADLEY'S PATENT AIR-PUMP.

SIR,—A more attentive perusal of the Mining Journal, of the 28th of April, brings me acquainted with another instance of the flagrancy of the law and practice of patents of invention, and custom of imparting to defective ideas and things the importance of more meritorious inventions. Mr. Siemens's air-pump has few good qualities, with needless complexity, conjoined to some of those discrepancies and assumed principia, which most inventors seem so prone to bring to book, and then with old wives' fondness hug. The tenth claim of a patent granted to me in 1845, describes a double action ram and plunger-pump, capable of exhausting the contents of one vessel, and condensing them without intermediate machinery, consisting of an inverted working barrel of cast-iron, with a valve situated at top, and opening into its quaity, wherein works, by accurate adaptation of ordinary fitting, a ram through a stuffing-box at the lower end of the barrel. The ram is provided with a valve at its upper, and a stuffing-box of ordinary fitting, a ram through a stuffing-box at the lower end of the barrel. The ram is provided with a valve at its upper, and a stuffing-box at its lower end, through which plays a phanger, having also a valve at its upper extremity, opening into the conduit which traverses its axis. The planger below and working barrel above are fixtures, the ram alone moving in its double capacity of barrel and bucket, upon the plunger, and within the main barrel, by means of two side gudgeons, connected by a gynglimoid motion with a cranked shaft. Mr. Siemens does not comprehend the difficulty of attaining perfect exhaustion, or at least his apparatus does not even incidentally embody its requirements, nor meet its difficulties. The obstacle to the achievement of perfect vacuum by dynamic exhaustion consists in this—That air of high rarety is incompetent to overcome the vis imerita of the exhaust valves, coupled with the faculty inherent in the small volume of air which remains undischarged, between the two exhaust valves and within the two unappropriated pistonic cavities and valvular conduits, dilating and presenting an additional obstacle to the play of the exhaust and vacuum valves.

haust valves and within the two unappropriated pistonic cavities and valvular conduits, dilating and presenting an additional obstacle to the play of the exhaust and vacuum valves.

These objections are met in my ram plunger-pump, by the play of fluid mercury on both superficies of the ram, in its contact with the plunger as well as with the main barrel; besides which (and perceptive by a little reflection), as the plunger and ram are alternately home to the very extremities of their respective working cavities; and when the ram is making its up stroke to transfuse the rarefied air of the main barrel within the

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axular cavity of the plunger, the middle valve, nicely balanced on its seating, and buoyed up by the interstitial mercury, is compelled to open upon the retirement of the mercury, and a less degree of rarefaction being in the main barnel than in the plunger cavity, where subsists besides all the conditions (dynamically speaking) of perfect vacuum.

Mr. Siemens's pump has five necessary valves—mine but three, and therewith performs the double function of an exhausting and condensing pump. The former pump has two pistons with, mine two plungers without, the friction of packing. Two barrels and two suffing-boxes in common with mine; and, as Prof. Graham, in his report to the Western Gas-Light Company in 1845, gave it as his opinion, "that this ram and plunger-pump was a noncensical jumble, and its author a mere smatterer," what, in the name of Scotch consistency, would the professor deem this, it's doubly complex deutotype?

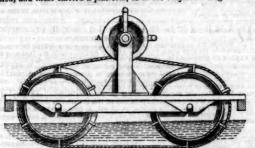
Grown Slute Offices, Threadneedle-st., May 15. deutotype? rowa Slate Offices, Threadneedle-st., May 15.

STEAM NAVIGATION-MARINE LOCOMOTIVE.

STEAM NAVIGATION—MARINE LOCOMOTIVE.

Str.,—I perceive, in your Journal of last week, that a correspondent (Mr. John De la Haye, of Liverpool), suggests what he calls a "marine locomotive" as a substitute for the present form of our steam-vessels. He assumes that, with the present vessels, "steam navigation has not answered the expectations which had been entertained respecting it; the expense being very great, considering the limited speed hitherto attained." This he attributes to the form of the vessel, which he terms "an elegantly shaped raft, with a water-wheel whirling on each side." I gather from his proposed remedy, as much as from the words of his letter, that he considers the friction of vater ngainst the vessel's bottom and sides, as she moves along, is the cause of the alleged inefficiency of steam-vessels; and his suggestion is, that steam-vessels should consist of a platform, resting on the axes of hollow, and therefore floating, spheres, connected by such axles, so that he conceives as these spheres would roll over the water, instead of sliding, or, as he calls it, "cutting through it," we should have a great reduction of the power necessary to propel the vessel.

I beg to inform you that, when about 20 years of age, I tried a very similar experiment, and with much the same object in view as Mr. De la Haye. My vessel consisted of two empty casks, to the ends of which axes were artached, and these carried a platform, as in the subjoined diagram:—



A, is a pulley, having a handle on each side small floats affixed on the

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A, is a pulley, having a handle on each side small floats affixed on the staves, and an endless rope being carried round the pulley and casks, and the paddles being omitted at the bilges to allow the ropes to embrace the casks. With this vessel a young companion and myself crossed the Tyne, at a very slow speed and with great labour to ourselves. I may just add, that the experiment might have ended in a catastrophe; for our rolling boat, being top heavy, upset in deep water, and my friend, who could not swim, had a narrow escape of being drowned.

I may state that this experiment proved nothing, for my buoyant rollers were not sufficiently large to the weight of two persons and the platform; but I will show the error into which I fell, and which I wish to prove attaches to the system. According to Beaufoy, the friction of water running over smooth surfaces in the direction of their length is so exceedingly small, as to have been very difficult of appreciation, being not more (quoting from memory) than one-half per cent, on the average of his experiments. Subsequent experiments on large vessels prove that by increasing the length of the parallel parts of a yessel, and fusaling her with the annu immersed midship section as before her alteration, the speed of the vessel has been found to remain unaltered by the prolongation. If, therefore, mere friction of surface is not the consumer of the power in steam transit, it must evidently be due to the absolute displacement of the water, by the vessel pushing it aside in her progress.

This being the case, let us consider what would be the effect of carry-

tion of surface is not the consumer of the power in steam transit, it must evidently be due to the absolute displacement of the water, by the vessel pushing it aside in her progress.

This being the case, let us consider what would be the effect of carrying a platform on four buoyant spheres. It is evident that in a vessel as at present constructed, we have but one displacement—that is to say, that of the largest immersed section. It is evident, also, that on the easy flow of the water to and from the midship section, depends the relative case with which the vessel is propelled; and hence the greatest part of the improvement in the speed of our later steamers has been principally due to the prolongation of the bow, which is, in fact, the insertion of a sharper wedge to separate the fluid, and to the prolongation of the ran, which causes the returning water, after being separated by the bow, to act upon the after wedge, and produce what is technically called "minus pressure"—a very essential auxiliary in economically propelling the vessel, by awailing of a force arising from the recoil, or reaction, of the divided water—the loss of which would otherwise produce so much loss of power. We see, then, that as friction of surface forms no appreciable element in the resisting forces, the prolonged form at present adopted is not only necessary for economical propulsion, but that every inch of such prolongation decreases the resistance, by giving greater buoyancy, and thus reducing the immersed midship section.

Now, if we take a vessel of 100 ft. long and 16 ft. beam, and her greatest immersion as a mean being A feet equal to 64 feet (the greatest section of

decreases the resistance, by giving greater buoyancy, and thus reducing the immersed midship section.

Now, if we take a vessel of 100 ft. long and 16 ft. beam, and her greatest immersion as a mean being 4 feet, equal to 64 feet (the greatest section of displacement), we should have a buoyant power capable of carrying about 80 tons, allowing one-half the cubical contents for the entrance and run. Let us now suppose a platform supported on four spheres, of say 20 feet diameter; such spheres, to be immersed to carry 80 tons, would each have an immersed midship section of 70 ft., or a total section of displacement equal to 70 × 4 = 280 feet—that is to say, upwards of four times that of a ressel of the above dimensions. Besides, the sphere would be a very bad form for dividing the water, being worse than the bluffest bows of our old colliers. I say nothing of the great width of such a vessel, nor the impossibility of hanging a platform and cabins, &c., on the axles, and all the other practical difficulties which must attend the plan.

London, May 16.

STEAM NAVIGATION AND STEAM LOCOMOTION.

SIR.—In the common way of navigating the sea, whether by wind or steam, the work done is to displace a weight of water equal to that of the ressel and its cargo, the space the vessel moves, and in the time it continues in motion, excepting always the resistance of the air, with which it is needless to meddle at present. Thus a vessel weighing 100 tons, going from London-bridge to Graveserd at flood tide, or in still water, the work is equal to removing 100 tons of water from Gravesend to London-bridge, the power in demand for which varies according to a certain law, which need not be "enunciated," as said by the learned.

Mr. De la Have her recording to the property of the prop

med not be "emmiciated," as said by the learned.

Mr. De la Haye has proposed to substitute a globe to roll over the water, instead of cutting through it in the common way. We are in an age wherein genius is stretched in every direction to improve the art of locomotion, and I will not cry down in its incipience whatever might tend to annihilate space; but still we may cast an eye on the pence to be disbursed; in reference to which—let the sphere be supposed 100 feet in diameter, and its cubic content will be 523,600 feet. The water displaced, when one-sixth of its diameter is immersed, will be \$\frac{523,600}{1875} = 38,785 cubic feet, or about 1000 tons for the gross weight of vessel, engine, coal, and cargo. The superfices of the sphere will be 15,708 feet, and, if of copper, should not be less than \$\frac{1}{2}\$ inch in thickness; or an weight about \$20\$ bts, per foot, which at 1a. 8d. only per lb, the cost of the shell is \$23,502/.

But to annihilate space we must annihilate time. Let the speed be taken at 70 ft. per second, or about 48 miles an hour, and allowing the proper resistance of the atmosphere to a sphere, as compared with a flat surface, the power required to master it in the case taken is—

11-207 × 70 × 60 × 7854 — 2800 horses, whence the weight of the globe,

\$\frac{38,000 \times 4}{2800}\$ horses, whence the weight of the globe,

23,000 × 4 = 2300 horses, whence the weight of the globe, engine, coal, and vessel being reckoned, so little would be left for beneficial cargo, that high speeds would not pay. At equal speeds by the present and proposed method of locomotion, taking the quantities immersed

the same both in form and bulk, the work to be done in the first case, a compared with the last-mentioned, would be in favour of the latter about 840 =628 to 1, if the air were constantly at rest; but the usual ship em-

ployed to navigate the waters is greater in length then in breadth, so that the water is easily divided, and as the wind has had its commands, which it means to obey, it will be more profitable both to time and pocket to keep the beater track, and cut through the water in the present fashion, than to roll over it on mighty spheres.—John Curr: Upper Penton-st., May 12.

THE WATER PRESSURE ENGINE.

SIR,—You have very correctly answered, in your Notices to Correspondents, the "North Briton's" inquiry, as to the power required to do the work given—viz.: that 89 horses of genuine old-fashioned Boulton and Watt effective strength would be the sum in case the moving agent were steam; what it would be by modern indicator diagramatic measurement I pass over, for the reason that neither I, nor any one else, can answer the question, unless the machine be made, when it would be a day out of time.

Steam power differs from water power exactly as 2 to 1 (in the case given), when the very utmost is made of the latter; but the data provided by the "North Briton" is so over abundant, that little is left for the skill of the mechanic, or little room for advice, unless it be that he should rest on his arms, and reflect what data should be given and what curtailed.

 $\frac{12^3 \times 131}{12}$ = 471 sq. in., the sectional area of pump barrel, or thereabout. $471 \times 360 \times 12 = 2,034,720$ the cub. in. of water to be lifted at every stroke $20^2 \times 7854 \times 96 \times 12 = 361,912$, the cubic inches of water on the piston. $2.034,720 \times 10 = 56$ feet, the length of stroke of the piston,

when that of the pump is 10 feet—so that the two pressures be in statical equilibrio; therefore, a stroke between 56 and 112 ft, would be required to do the work, which, not being likely to be put in practice, it is needless to count what water would be required. I do not wish to press too hard on your correspondent, for he is only a fair sample (and, perhaps, from the mountains) of present civil engineering science.

Upper Penton-street, May 16.

NEW MOTIVE-POWER.

NEW MOTIVE-POWER.

Sir,—Your talented correspondent, Count Werdinsky, seems to possess no slight advantage over his antagonists, for he founds his argument upon the actual results which he has obtained; whilst some of his opponents have built their objections upon the shifting quicks and of chemical analysis. He has well exposed the fallacious and incongruous results which are obtained and recorded by chemists as matters of fact, or as scientific truths, laid down and established by a strict identity obtained in each result; whereas not only with pyroxyline, but with innumerable other compounds, no two analyses are found to correspond.

Suppose that Count Werdinsky's jury of 12 chamists were to determine

Suppose that Count Werdinsky's jury of 12 chemists were to determine the formula of M. Pelouze is the only correct one given for py-

Now, the analysis of gunpowder by a celebrated chemist of the present day gives for its composition

IRON STEAM-SHIPS AS VESSELS OF WAR.

RESPECTED FRIEND,—I am quite ready to agree with "J. H. S. C.," that the experiments which have been made with iron war steamers are not of a vature to lead to the conclusion that the matter is definitively set at rest. My remarks were not meant either as an assertion or a prediction. I merely stated the fact of their having been condemned by indiat rest. My remarks were not meant either as an assertion or a prediction. I merely stated the fact of their having been condemned by individuals who are supposed to possess some knowledge on the subject; but, of course, those who have interested themselves in it will not be satisfied that they are in the right, on the mere probability of such being the case; and as the subject is one of considerable importance, I may be excused for offering a few remarks on his letter—not with the view of maintaining that modern inventions are not applicable to purposes of warfare, but simply to enter into an examination of the causes which have rendered iron vessels unfit for such a purpose, and to inquire whether there is any probability of surmounting the obstacles which have prevented their adoption as agents of destruction. The experiments made at Portamount with the Reby steamer, cannot, of course, he considered of any Importance whatever; but I question whether the experimental trip of the Newesis to China is much more conclusive, as that vessel was principally employed in destroying the war junks, by sending a Congreve rocket through the stern of accis—a work of extermination rather than of ordinary warfare, as the usualled were sent into attentity by the first explosion; and I've must crofit the statements made with respect to the Chinese and their artillery, the shots which they could send would have about as much effect on an English-buit vessel, whether of wood or Front, as a broad-side of Datch cheese on a sandbank; but with the stoamer employed in the South American after the subject of the statement of "H. G. S. C.," as the respect was constructed for preserving, rather than destroying, life. The officers, it appears, found the first production of the statement of "H. G. S. C.," as the respect was constructed for preserving, rather than destroying, life. The officers, it appears, found the true as british as glass; and, judging the first conditions of the statement of "H. G. S. C.," as the respect of the conditi

The great desideratum which both parties try to find out. He proposes a net work of fron, placed on edge; but may I be permitted to ask libs whether this would prevent the abots from passing through the vessel? If so, iron vessels would soon superside those built of oak; for heavy shot, when fired point blank, will pass through their oak plants as though they escenutered nothing harder than a firkin of butter; but if the arrangements proposed would not prevent their penetrating, and that the only difference would be that a stronger power would be required to shatter the iron, would the danger caused by the iron spiniors be removed? A nother question is, would it be possible to plug the vessel, should the shot penetrate below the water lim? I sak these questions merely with the view of placing the affair in the light in which I have seen it, and expecting that "H. G. S. C." will further give the public the besent of his opinion, as he has statied the subject. But, now, as to the cause of iron being shattered by cannon ball, on being fired against a large mass of India-rubbur, has been shattered to fragments. This may at first appear inexplicable; and indeed many persons considerent, although given on the nighest authority (Chambers); yet nothing can be more simple than the explanation of this apparent mystery. The impelling and repelling power are suddenly scarted at the same moment, causing a change in the structure of the substance acted upon; the powder acts as an impelling power; the ball penetrates deep in the India rubber, which, by its elasticity, regols it at the same instant, which a static and any principle we can break a flint, by grasping it firmly in the hand, and applying a sharp blow on it with a small harmore—the force of the muscles of the land and arm furnishing a repelling power equal to that imparted by the hammer in the opposite direction. But if, instead of this, we place the fine on a thin sheet of iron, and apply several sharp blow on it with a small harmore—the force of the muscles of th

does not bargain to be cooked.

It hink that men of science will see that the possibility of using iron vessels for purposes of warfare is a question which cannot be easily decided. I do not profess to possess much knowledge on the subject. I merely offer the above remarks as suggestions as to the difficulties which have to be encountered before they can be available as agents of destruction; and whether there are any insurmountable obstacles is not a question for me to decide. But whatever may be the decision of scientific men on the subject, it is to be hoped that it will not lead the Admiralty to compel the companies to build their vessels of fimber, as it is generally admitted that the destruction of an iron vessel at sea, by the mere force of the waves, is almost an impossibility. John DE LA HATE.

IMPROVED BUFFERS AND BREAKS.—Mr. John Lane, of Liverpool, has just completed an ingenious arrangement of breaks and buffers for railway carriages, of his invention—some experiments on which have been highly satisfactory. The first operation was to show the powerful and immediate effect of the new breaks, or stoppers, which, by a mere pull at a lever handle, so effectually locked a pair of wheels in each carriage, that from a high speed they came to an almost instantaneous pause. In the absence of diagrams, we can but state that this break locks simultaneously the wheels of all the carriages that may follow the first, by means of an ingenious continuation or arrangement of piston-rods, springs, and other machinery—all simple in construction, and, consequently, not liable to be thrown out of order. The break itself, when in operation, clips round a drum in the middle of the axletree of the two wheels in each carriage to be stopped. All is placed under the carriage bodies, and the single operation of pulling the break handle in front effects the individual stoppage, in like manner, of every carriage in the train, so that there is no over-straining of any one pair of the wheels. The buffer consists of a cylinder and piston working through a stuffing-box, the piston-rod carrying at its terminus the buffer-head. The cylinder is filled with water, and is connected by a small tube with another cyninder containing air, and above it; on the buffer striking any object, the water is forced up into the air cyfinder, and, by the elasticity of the air acted on by the water, the engine and train are arrested without injury, and the ease and absence of shock on the rebound was truly surprising. A strong balk of timber was fixed in the augle of the walls which formed the terminus of the temporary railway, and the mounted passengers, after being whirled along as if to be dashed against the wall, received only a gentle shake, without being unseated, and received gently back-wards with the machines. Both inventions appear of consid

passengers, after being whirled along as it to be dashed against the wall, received only a gentle shake, without being unseated, and receded gently backwards with the machines. Both inventions appear of considerable utility.

New Coupling Cramps—Informant to Railway Companies.—An invention of considerable importance has been brought out by Messrs. Crawford and Grew, the former gentleman being the superintendent of the locometive department, and the latter the station master at Rugby. The object of the invention is to supersed the present system of attaching and detaching railway carriages, and is called the "double ratchet cramp." The utility of such an invention will be obvious to every one in the habit of travelling by railway, when they contrast it with the present crude mode. The links by which the carriages are fastened together are so constructed as to prevent any play or freedom between them, further than that allowed by the buffer-springs, so that the unpleasant jolting and frequent collision of passengers' heads, upon a sudden check taking place, to which they are at present subjected, is completely avoided, whilst the delay caused by uncoupling or coupling carriages at different stations is lessened in a very material degree; besides which the risk of accidents and danger to human life is altogether avoided, the process being carried out without the necessity of going between the carriages—a duty that has frequently led to the loss of a singer, a hand, and sometimes even loss of life, the carriages being forced together before the porter could get from between them, and he has, consequently, been crushed between the buffers. Experiments have been made with the cramp on the London and North-Western line, in presence of Mr. M'Connell and several other engineers, when those gentlemen expressed their high approbation of the invention, and their perfect satisfaction at the manner in which it worked, Mr. M'Connell intimating that he should recommend its immediate adoption to the directors of the London and

IMPROVED COTTON CLEANING ENGINE.-Mr. Burn, of Edinburgh, has invented a machine for cleaning cotton from the seed, which is likely to prove of great importance to the cotton trade. By the use of the old saw-gin, the staple was so cut and torn about in every direction that it was necessary to abandon it. Mr. Burn's invention is exceedingly simple, not only relieves the staple of the seed, but preserves it pure and fit for every purpose of the mill. It is, we believe, patented; but we are not aware of the details of the machine.

It is, we believe, patented; but we are not aware of the details of the machine.

Kenne's Marble Centert.—This cement, which has been in use for some time, is composed of gypeum and alum; these are incorporated at a great heat, when an intimate combination takes place; when mixed it is very hard, and not one-third the expense of Portland cement. It is of two kinds—fine and coarse; the fine quality is pure white, and susceptible of as high a polish as marble. Incorporated with colours to form scagliola, the imitation of varue-gated marble is effected with great certainty; and, from the facility with which one colour is inlaid with another, very beautiful mosaic work, for tables and architectural decoration, can be produced. The coarse is available for stucco, in situations were peculiar strength and durability are desired; it is adopted in place of wood for shirting, architrave, and punel mouldings, with other internet filtings, at a much less cost. Buildings so stuccoed are, to a great extent, fire-proof, and unassailable by vermin or dry-rot. It is used in the proportions of two gallons of water to one bushed of coment; in cases where it has to be used on brickwork, it is recommended to lay first a coat of Portland coment to resist the damp. The process of setting and hardening is gradual, in summer taking two or three hours, in winter double that time. Several specimens of the seagiloid that we have examined are limitated with a correctness approaching to nature.

DREVENTION BETTER THAN A CURE.—RAILWAY COMPANIES, OWNERS and PROPRIETORS OF STEAM MACHIN ral are respectfully informed, that the ONLY INFALLIBLE METHOD OF

general are respectfully informed, that the ONLY INFALLIBLE METHOD OF
PREVENTING BOILER INCRUSTATIONS
is that lately PATENTED by Mr. HORSLEY, which, while it effects a considerable saving
of time, fuel, wear and tear of machinery, tends greatly to DiMINISH, if not altogether
to PREVENT, the POSSIBILITY OF EXPLOSIONS.—No destructive ammoniacal or
other salt is introduced into the boiler.
As this Patent embraces a field of so extensive a character, applying equally to Water
Companies and Manufacturers, it is the intention of the proprietors to FORM a COMPANY, so soon as a sufficient number of individuals can be got together.
For further particulars and prospectuses, apply to Mr. Horsley, tyde, Isle of Wight;
of Mr. Campin, Patent Office, 210, Strand; or the office of the Mining Journal, No. 26,
Fleet-street, London.

WORKING RAILWAYS BY CONTRACT.—(Including WORKING RAILWAYS BY CONTRACT.—(Incituting In the public prints, as well as privately, in railway circles, has induced some gentlemen of practical acquaintance with the details of the working of railways to form themselved into a company, for the purpose of carrying out the necessary arrangements with railway companies who may feel disposed to entertain the subject.

As it is fully intended to confine the number of shareholders as much as possible to those parties whose profession and habits have enabled them to gain experience in the object for which the company is proposed to be established, the particular attention of Engineers and Contractors is respectfully solicited to this announcement. Further particulars may be had on applying by letter, from principals only, to the undersigned.

Worked May 8, 1840.

Matlock, May 9, 1849.

BERDEEN RAILWAY COMPANY .- Notice is hereby A BERGDEEN KAILWAY CUMICANY,—Notice 18 hereby
given, that an EXTRAORDINARY GENERAL MEETING of the shareholder
of the ABERDEEN RAILWAY COMPANY will be HELD within the Royal Hotel, Aberdeen, on Thursday, the 31st day of May current, at One o'clock in the afternoon, to en
ower the directors to raise, on loan, the sum authorised to be borrowed under the
"Aberdeen Eailway Act, 1848."

By order,
JAMES HAY, Chairman.

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